J. D. Ogden

Catalog
1968-69

Eastern Kentucky University

BULLETIN • VOLUME 59 • NUMBER 1

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Catalog 1968-69

FOUNDED 1906

Eastern Kentucky University

BULLETIN • VOLUME 59 • NUMBER 1

MEMBER OF

Kentucky Association of Colleges, Secondary and Elementary Schools

American Association of Colleges for Teacher Education

Association of State Colleges and Universities

National Association for Business Teacher Education

Association for Field Services in Teacher Education

American Association of University Women

American Council on Education

American Technical Education Association

National League for Nursing

ACCREDITED BY

Southern Association of Colleges and Secondary Schools

National Council for Accreditation of Teacher Education

National Association of Schools of Music

BULLETIN

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TABLE OF CONTENTS

PART ONE—The University 9
- Introduction 9
- History 10
- Purpose 11
- The Campus 13

PART TWO—Information for the Student 21
- Expenses and Living Accommodations 22
- Registration Fees 22
- Special Fees 23
- Living Accommodations 25
- Scholarships 27
- Loans 28
- Student Employment 28
- Financial Assistance Service 30
- Other Student Services and Activities 30
- Guidance and Counseling Service 31
- Athletics and Recreation 32
- Social Activities 32
- Student Organizations 32
- Student Publications 33
- Cultural Activities 34
- Student Awards 35
- Placement Office 36
- The Alumni Association 36

PART THREE—General Academic Information 39
- Admission to the University 40
- Academic Programs 41
- Degrees 41
- Teacher Education Curricula 44
- Pre-professional Curricula 47
- General Education Requirements 48
- Course Prefixes 49
- Catalogue Code 50
- Academic Regulations 50

PART FOUR—Academic Division 55
- Central University College 58
- College of Applied Arts and Technology 99
- College of Arts and Sciences 145
- College of Business 231
- College of Education 259
- Graduate School 293
- Continuing Education 297

PART FIVE—Official Directory 303
- Board of Regents 305
- Administration 307
- Faculty 308
- Administrative Staff 353

PART ONE
PART TWO
PART THREE
PART FOUR
C. U.
A. A. & T.
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BUSINESS
EDUCATION
GRAD SCHOOL
CONT'G EDUCATION
PART FIVE

CALENDAR 1968

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EASTERN KENTUCKY UNIVERSITY
1968-69 CALENDAR

FIRST SEMESTER

September 13	Friday	10:00 a.m.	Faculty Day.
September 15	Sunday	10:00 a.m.	Dormitories open for new students.
September 16	Monday	8:00 a.m.	Orientation new students, Alumni Coliseum.
		1:00 p.m.	Orientation meeting, transfer students, Hiram Brock Auditorium.
September 17	Tuesday	1:00 p.m.	Advance registration.
September 18	Wednesday	8:00 a.m.	Registration of upper classmen and graduate students.
September 18	Wednesday	8:00 a.m.	Orientation meeting, previously enrolled freshmen and sophomores, in Alumni Coliseum.
September 19	Thursday	8:00 a.m.	Registration of freshmen and sophomores.
September 20	Friday	8:00 a.m.	Registration of freshmen and sophomores.
September 21	Saturday	8:00 a.m.	Registration of part-time, evening and Saturday students.
September 23	Monday	8:00 a.m.	Classes begin.
September 30	Monday		Last day to enter a course.
October 11	Saturday		Last day on which a course may be dropped without a grade.
November 18	Monday	10:00 a.m.	Mid-semester reports to Registrar.
November 27	Wednesday	12:30 p.m.	School closes for Thanksgiving holiday.
November 30	Saturday		June and August, 1969, graduates must apply for graduation by this date in their college dean's office.
December 2	Monday	8:00 a.m.	Class work resumes.
December 20	Friday	4:30 p.m.	Last day to drop a course.
December 21	Saturday	12:00 noon	Christmas holiday begins.
January 6	Monday	8:00 a.m.	Class work resumes.
January 27-31			Final examinations.
January 31	Friday		Close of first semester.

SECOND SEMESTER

February 6	Thursday	8:00 a.m.	Registration.
February 7	Friday	8:00 a.m.	Registration.
February 8	Saturday	8:00 a.m.	Registration of part-time, evening and Saturday students.
February 10	Monday	8:00 a.m.	Classes begin.
February 17	Monday		Last day to enter a course.
March 7	Friday		Last day on which a course may be dropped without a grade.
April 3	Thursday	10:00 a.m.	Mid-semester reports to registrar.
April 14-20			Spring vacation.
May 6	Monday	4:30 p.m.	Last day to drop a course.
May 31	Saturday		January, 1970, graduates must apply for graduation by this date in their college dean's office.
June 1	Sunday		Baccalaureate Service and Commencement Exercises.
June 2-6			Final examinations.
June 6	Friday		Close of second semester.

SUMMER SCHOOL—1969

June 16	Monday	8:00 a.m.	Summer school registration.
June 17	Tuesday	8:00 a.m.	Classes begin.
June 17	Tuesday		Last day to register for a full load.
June 23	Monday		Last day to enter a course.
August 7	Thursday	7:30 p.m.	Commencement.
August 8	Friday		Close of summer school.

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The University

. . . .

Introduction . 9

History . 10

Purpose . 11

The Campus . 13

All statements in this publication are announcements of present policies only and are subject to change at any time without prior notice. They are not to be regarded as offers to contract.

This bulletin was prepared by Eastern Kentucky University, edited by the Offices of Academic Affairs and Public Affairs and paid from state funds.

EASTERN KENTUCKY UNIVERSITY . . .

Dedicated to Serving Kentucky Since 1906

INTRODUCTION

Eastern Kentucky University is a coeducational public institution of higher education offering general and liberal arts programs, pre-professional and professional training in education and various other fields at both the undergraduate and graduate levels. Located in Richmond, Madison County, Kentucky, Eastern has a distinguished record of more than six decades of educational service to the Commonwealth. The institution is recognized as one of the nation's leading producers of teachers with over seventy-five per cent of its 15,000 graduates having entered the teaching profession.

Richmond is on the main line of the L & N Railroad, 112 miles south of Cincinnati, Ohio. Situated twenty-six miles southeast of Lexington, Kentucky, Richmond is conveniently reached by automobile over Interstate 75 from Northern Kentucky and Cincinnati to the North and over U. S. Route 25 (Dixie Highway) from Southeastern Kentucky. Richmond is also served by U. S. Route 227 and Kentucky Route 52. Combinations of major highways in the state with these highways make Richmond easily accessible from Eastern and Northeastern Kentucky as well as the Bluegrass and Central Kentucky area and the Metropolitan area of Louisville.

Completion of Interstate Highways, I-64 (East-West) and I-75 (North-South), and the Eastern Kentucky Turnpike, will provide even greater convenience in automobile travel to Richmond, since the city is located near the convergence of these three arterial highways.

Richmond, the county seat of Madison County, is an expanding community of approximately 13,000 population. Served by fine churches representing most Christian faiths, the community provides an excellent environment for the University student.

In and around Richmond are many areas of historic and scenic interest. Boonesborough State Park, birthplace of Kentucky, is located twelve miles to the north. Many other historical places are within easy driving distance. Scenic and recreational areas surround this section of the state.

HISTORY

The General Assembly of 1906 enacted legislation establishing the Eastern Kentucky State Normal School. Governor J. C. W. Beckham signed the bill into law on March 21, 1906, and on May 7 of that year, the Normal School Commission, meeting in Louisville, selected the campus of the old Central University in Richmond, Kentucky, as the site of the new school. On June 2, 1906, Ruric Nevel Roark was chosen President of the Normal school and the training of teachers was initiated.

In 1922, Eastern became a four-year institution known as the Eastern Kentucky State Normal School and Teachers College. The first degrees were awarded by this institution in 1925. In 1928, the College was accredited by the Southern Association of Colleges and Secondary Schools. In 1930, the General Assembly renamed the school as the Eastern Kentucky State Teachers College.

In 1935, a graduate program was approved at Eastern, leading to the Master of Arts in Education. In 1948, the General Assembly removed the word "Teachers" from the name of the College and granted the College the right to award non-professional degrees.

The most significant day since its founding came for Eastern February 26, 1966, when Governor Edward T. Breathitt signed into law a bill renaming the institution Eastern Kentucky University and sanctioning the awarding of graduate degrees in academic fields other than education.

During this period of time, Eastern Kentucky University has increased rapidly in size and stature. Beginning with a few students engaged in short review and certificate courses, the University today serves thousands of Kentucky's young men and women by offering a curriculum leading to the Bachelor of Arts, or Bachelor of Science degree in teacher education, or in general or professional areas, and an expanding graduate program that presently offers new degrees at the Master's level in English, History, Biology, Business Education, Music Education and Guidance and Counseling for non-school personnel as well as the already well-established Master of Arts degree in Education and the various fifth- and sixth-year leadership programs in education. In addition to these programs, Eastern offers for the first time a joint doctoral program with the University of Kentucky leading toward the Ed.D. degree in education.

Ever-mindful of the purpose of its founding, Eastern continues to recognize its historic function of preparing quality teachers for the elementary and secondary schools of the Commonwealth. However, a strong liberal arts curriculum leading to appropriate degrees, together with pre-professional courses in several areas and graduate programs, enable Eastern to serve the Commonwealth as a general university.

PURPOSE

The purpose of Eastern Kentucky University is to provide for its students those intellectual and cultural pursuits which will develop in them habits of scholarship and intellectual curiosity; which will provide for them a deep understanding of American democracy and their role in maintaining its strength and vitality; which will imbue them with an understanding of man and his aspirations; and which will enable them to communicate effectively and efficiently.

Within this general purpose, the University has three more specific purposes: (1) to provide instruction in the arts and sciences, in business, in professional education, and in technological subjects; (2) to provide service to the community and region through the faculty serving as consultants in their fields of specialization and engaging in research dealing with problems of our society, and (3) to engage in research to advance knowledge in the subject matter areas with which the various colleges of the University are concerned.

These purposes of the University are accomplished through the Central University College, College of Arts and Sciences, College of Business, College of Education, College of Applied Arts and Technology, and the Graduate School.

The Central University College has responsibility for students during the first two years of the four-year undergraduate program. It organizes and maintains a centralized advising program to assist students in selecting an appropriate curriculum, it implements a well integrated general education program, and it administers selection of beginning course work in preparation for the student's major field.

The College of Arts and Sciences provides, in cooperation with the Central University College, for all undergraduate students in the University. It also provides advanced study in various disciplines and offers courses which are intended to prepare the student for later study in professional fields such as medicine, dentistry, medical technology, engineering, law, social work and the ministry. It provides the academic specialization for students working for teacher certification in elementary and secondary education.

The College of Business provides one-, two-, and four-year programs for students preparing to enter business occupations. The one- and two-year programs are designed specifically to provide the specialized training needed for successful vocational careers. The four-year programs are based upon a liberal education as a foundation for personal and career development throughout the student's working life. Four-year students are expected to take a group of courses built around the functional areas of business to attain a strong foundation in business procedures, policies, and forms of analysis. They may specialize in several areas of business, such as accounting, business teaching, economics, finance, management, marketing and secretarial work.

The College of Education assumes responsibility for the preparation of students majoring in elementary education, health, library science, physical education, psychology, recreation and school health; cooperates with the Colleges of Arts and Sciences, Business and Applied Arts and Technology in programs designed to prepare secondary education majors; cooperates with the Graduate School in the development and implementation for the advanced preparation of elementary teachers, secondary teachers, guidance counselors, supervisors, school principals and superintendents; assists local school districts in in-service education programs; and provides professional leadership (through teaching, research, publication, workshops, conferences and consultant services, in education at the local, state and national levels.

The College of Applied Arts and Technology prepares teachers of technical subjects within the fields of industrial arts and home economics and offers programs of study to prepare individuals for technical occupations and professions in agriculture, nursing, industrial technology, home economics, law enforcement and crafts. These programs range in length from two to four years. In addition, the College houses the Traffic Safety Institute and the Kentucky Peace Officers Standards and Training Council. Its faculty is sensitive to emerging, as well as existing technical occupations and professions that require college-trained personnel. New curricula are developed, in keeping with the resources of the institution, to meet such demands.

The Graduate School administers programs leading to the degrees of Master of Arts, Master of Science, Master of Business Administration, Master of Music Education, and Master of Arts in Education. Fields in which the Master of Arts degree is awarded include: English, geography, history, and guidance and counseling for non-school personnel. Master of Science degree programs are available in the areas of biology, chemistry, school and clinical psychology. Degree programs leading to the Master of Arts in Education are available in the areas of: elementary education, counseling, library science, reading, and most secondary teaching fields. Standard certification programs are available for school principals and supervisors. Sixth-year programs are available for school leaders, guidance counselors, and in most teaching fields. The Graduate School also directs the joint doctoral program offered cooperatively with the University of Kentucky leading to the Ed.D. degree. Through its various programs, and in cooperation with the University's upper division colleges, the Graduate School provides advanced study to meet the needs of the region's teachers, businesses, and governmental agencies. Programs are developed within a philosophy which assumes that the foregoing general needs will be satisfied best by individualizing program planning to meet both the specific interests and professional requirements of students.

Continuing Education—The Division of Continuing Education, in cooperation with the five university colleges and the graduate school, provides educational opportunities for those who for various reasons do not find it possible or practical to enroll for the regular university program. These services are provided through extension classes, correspondence courses (both college and high school level), consultative services by the faculty and staff, Saturday and evening classes, workshops, conferences, institutes, and other short term courses.

THE CAMPUS

The Eastern campus embraces approximately 325 acres of gently-rolling bluegrass slopes, and is further enhanced by the thoughtful selection and placement of trees and shrubs.

The various academic buildings, dormitories, and other facilities, reflecting several styles of design, are centered around a replica of an ancient Greek ampitheater which seats 2,500 persons.

Special emphasis in beauty and usefulness has been placed upon the academic heart of the University found in the complex of the John Grant Crabbe Library, the University Building, and the Bert Combs Classroom Building. The map on the inside of the back cover shows the relationship of the buildings on the expanding campus. Following are brief descriptions of the major buildings and facilities of Eastern Kentucky University.

ACADEMIC BUILDINGS

ALUMNI COLISEUM

The Alumni Coliseum houses facilities for physical education, general college classrooms and a basketball playing arena. The physical education facilities include auxiliary gymnasiums, special purpose rooms, locker and shower spaces and both indoor and outdoor swimming pools. Classrooms are included for general university use. Spectator seating will accommodate approximately 6,500 persons for basketball games and approximately 7,500 persons for convocations, lectures, and similar events. The building provides office space for Physical Education faculty, Department of Athletics staff and R.O.T.C. staff.

BERT COMBS BUILDING

The Bert Combs Building was named to honor a former governor of the Commonwealth of Kentucky. Completed in 1964, the building houses the Colleges of Business and Education, and the Departments of English, Speech and Drama and Political Science. The four-story building is completely air-conditioned and provides teaching stations for 2,200 students. It contains two large lecture rooms and provides offices for members of the faculties of these departments. Of striking design, the exterior of the building is faced with cut limestone and provides a unified concept in the heart of academic campus.

CAMMACK BUILDING

The James W. Cammack Building was named to honor an appointee to the first Board of Regents of the University in 1906. In the summer of 1961, this building was completely renovated and is currently used to house the Art Department, Foreign Language Department, and other departments of the University. The exhibit room of the Art Department is located on the first floor and a modern, well-equipped language laboratory on the second floor is used by the Foreign Language Department.

COATES ADMINISTRATION BUILDING

The Thomas Jackson Coates Administration Building was named in honor of Eastern's third president. The offices of the President, Vice President for Academic Affairs, Dean of Admissions and Registrar, Dean of Public Affairs, Dean of Business Affairs, and other administrative personnel are located in this building. The building contains the Hiram Brock Auditorium which has a seating capacity of 1,700. The auditorium has a stage 40 feet by 30 feet, equipped with adequate curtains and drops, and a modern motion picture projection room. In 1965 a thorough renovation of this facility was completed. In this renovation the building was completely air-conditioned and refurbished, a 40-rank Holtkamp pipe organ was installed in the Brock Auditorium.

CRABBE LIBRARY

The John Grant Crabbe Library, named to honor Eastern's second president, occupies a central and convenient position on the campus. A major reconstruction of this facility in 1966 enlarged the library to 148,000 square feet of floor space. The design provides diversified stacks with adjacent study areas. Individual study carrels are located throughout the building. Fully air-conditioned, the library provides seating space for approximately 2,500 students simultaneously and currently houses 195,000 volumes. It is designed to ultimately house a half million volumes.

DONOVAN BUILDING

The Donovan Building, named to honor the late Dr. Herman Lee Donovan, fourth president of Eastern Kentucky University and President Emeritus of the University of Kentucky, was first occupied in September of 1961. This building consists of several units housing the laboratory school of Eastern Kentucky University, and provides college classrooms. The facility is complete in all respects, utilizing modern concepts in design and equipment. Facilities are included for the laboratory school, from the nursery school through the twelfth grade, with appropriate units designed for physical education, music, arts and crafts, and general academic work at the elementary and secondary levels. Completely air-conditioned, this building compares favorably with any similar facility in the nation. The completion of an addition to the Donovan Building provides additional elementary classrooms, a nursery school, and studios for educational television and an FM radio station.

FITZPATRICK ARTS BUILDING

This building was named to honor H. D. Fitzpatrick, Sr., a long-time member of the Board of Regents of the University. The Fitzpatrick Arts Building houses the departments of Industrial Arts and Home Economics. The Gibson Addition to the building in 1961 added to the Industrial Arts shop and classroom facilities.

BURRIER HOME ECONOMICS BUILDING

The Department of Home Economics will be housed in the new four-story structure named for Miss Mary K. Burrier, former chairman of the Home Economics Department. The building, scheduled for completion in the Fall of 1968, will contain lecture halls, research and study areas, 18 classrooms, and a "family-living center."

MOORE BUILDING

The Moore Building, housing the Departments of Biology, Chemistry and Physics, was named to honor Dr. William J. Moore, former Academic Dean. The air-conditioned facility, occupied in February, 1968, contains laboratories, classrooms, faculty offices and several large lecture rooms.

STEPHEN COLLINS FOSTER BUILDING

The Stephen Collins Foster Music Building houses the Music Department and provides classrooms for other divisions of the University. Facilities include, in addition to classrooms, nineteen practice rooms, ten studios, a band room and a chorus room, a number of auxiliary rooms such as offices for the head of the Music Department and the band director, listening rooms for music appreciation, student and faculty lounges, and storage and locker space. The building was air-conditioned in the spring of 1961.

ROARK BUILDING

Roark Building was named to honor Dr. Ruric Nevel Roark, Eastern's first president. In 1965, this building was renovated, refurbished and completely air-conditioned. The building will provide facilities for the departments of Mathematics, Geography and Geology, Anthropology and Sociology.

MEMORIAL SCIENCE BUILDING

Memorial Science Building is a modern four-story structure housing spacious, well-equipped laboratories and lecture rooms for the departments of Biology, Chemistry, and Physics.

TURLEY HOUSE

The Turley House is the residence for those students in the Home Economics Department who take the laboratory course in household management. Here the girls live and work together for nine weeks, cooperatively preparing their own meals, doing their own marketing, entertaining their guests, and making a pleasant home life for themselves.

UNIVERSITY BUILDING

The University Building was constructed in 1874 to house Central University. This four-story brick structure is the oldest academic building on the campus. In the summer of 1961 the building was completely renovated to house the J. T. Dorris Museum and the departments of History and Social Studies.

WEAVER HEALTH BUILDING

The Weaver Health Building is named for the late Charles F. Weaver of Ashland, Kentucky, who served on the Board of Regents at Eastern from 1920 to 1932. In 1965, a renovation of this building was completed, converting it into a health and physical education facility for women students. The building provides a large gymnasium, a spacious modern dance studio, an official size tile swimming pool, handball courts, several classrooms, and faculty offices.

WOMEN'S RESIDENCE HALLS

BROWN TELFORD HALL

Brown Telford Hall is a 14 story dormitory designed to accommodate 668 single women students. The dormitory is air conditioned and contains lounge and recreation space. The building named to honor Miss Brown E. Telford, former member of the Music faculty, is the first unit in the planned dormitory complex for women. It is anticipated that this facility will be occupied for the first time during the 1968-69 academic year.

BURNAM HALL

Burnam Hall was named for Judge A. R. Burnam, who served in the Kentucky General Assembly, and helped Eastern secure her first significant appropriation. It provides beautiful, comfortable, and fireproof living quarters for 370 students. Most of the rooms are arranged in suites of two with a connecting bath. A few rooms have private baths.

CASE HALL

Case Hall was named to honor Mrs. Emma Y. Case, Dean of Women of the College from 1932 until her retirement in 1962. The dormitory provides living accommodations for 550 women students. In addition to bedrooms, the building contains a spacious reception lounge, parlor and recreational spaces. A large grill provided in the dormitory will seat approximately 175 persons.

McGREGOR HALL

McGregor Hall is a six-story dormitory designed to provide excellent living accommodations for 448 women students. This dormitory is completely air-conditioned and includes lounge and recreational spaces. This facility, named to honor Judge Thomas B. McGregor, a past member of the Board of Regents, was first occupied in September, 1964.

SIDNEY CLAY HALL

Sidney Clay Hall, named to honor a member of the Board of Regents, provides living accommodations for 420 women students. The dormitory is completely air-conditioned and includes lounge facilities and other service spaces. The building contains a modern cafeteria which seats approximately 300 people.

SINGLETON P. WALTERS HALL

Walters Hall was named to honor Mr. Singleton P. Walters who was instrumental in the founding of Eastern Kentucky State Normal School, predecessor of Eastern Kentucky University. This 9 story air-conditioned facility houses 404 coeds and was first occupied in 1967.

SULLIVAN HALL

Sullivan Hall is a dormitory for women and accommodates 172 students. It was named for the first local regent, Jere A. Sullivan, who helped establish the first two normal schools in Kentucky. Sullivan Hall is a comfortable and convenient home for the women who live there. Central baths are located on each floor of the building.

MEN'S RESIDENCE HALLS

BECKHAM HALL, McCREARY HALL, AND MILLER HALL

Beckham Hall, Miller Hall, and McCreary Hall are three units so designed as to form a complex. Each of the dormitories provides accommodations for forty-eight men students. The rooms in these three halls are arranged in suites of four rooms and one bath. For each pair of such sections, one above the other, there is an outside entrance. Office and lounge facilities for these halls are located in Beckham Hall.

Beckham Hall is named for the late J. C. W. Beckham, who was Governor of Kentucky when Eastern was founded. McCreary Hall is named for James B. McCreary, a Richmond citizen, who twice served the State as Chief Executive. Miller Hall is named for Robert W. Miller, a Madison countian, who introduced in the lower house of the General Assembly a bill establishing Eastern.

COMMONWEALTH HALL

Tallest of Eastern's residence halls, Commonwealth Hall is a 21 story structure housing 545 men students. The air-conditioned building has student bedrooms on 17 floors, with offices, lounge, recreational and laundry facilities on the other 4 floors. This dormitory was first occupied in 1967.

DUPREE HALL

Dupree Hall, one of the twin towers matches Todd Hall in design and capacity. Fully air-conditioned, this men's dormitory, occupied in the summer of 1964, was named to honor Mr. F. L. Dupree, a current member of the Board of Regents.

EARLE B. COMBS HALL

Combs Hall replaced Memorial Hall and forms a quadrangle with Keith, Miller, Beckham and McCreary Halls. This dormitory, completely air-conditioned, provides living spaces for 238 men students. Lounge and recreational facilities are included in the facility.

The hall was named to honor Mr. Earl B. Combs, Sr., a member of the Board of Regents of the University.

KEITH HALL

Keith Hall is a modern, fireproof structure containing 88 bedrooms, a spacious lounge, offices, and auxiliary facilities. It has built-in furniture. The entire building has mechanical ventilation that is designed not only to keep a supply of fresh air in each room, but also to regulate the temperature. Keith Hall was named in honor of the late Dr. Charles A. Keith, former Dean of Men at Eastern Kentucky University, and Mrs. Keith.

MARTIN HALL

Martin Hall is a dormitory that houses 404 men students and contains an air-conditioned cafeteria, spacious recreation and lounge space, and service facilities.

This outstanding dormitory was named to honor Dr. Robert R. Martin, at the time of his inauguration as the sixth president of Eastern Kentucky University.

MATTOX HALL

Mattox Hall is constructed adjacent to and at right angles with O'Donnell Hall and connected to it by a colonade. This hall matches O'Donnell Hall in all respects and, in addition, contains a snack bar and recreation facilities. This dormitory was occupied for the first time in 1961. Mattox Hall was named to honor M. E. Mattox, Registrar of the University from 1925 to his retirement in 1961.

O'DONNELL HALL

O'Donnell Hall is a four-story fireproof structure containing 100 bedrooms for men students. This hall was occupied for the first time in February, 1959. A spacious and beautifully furnished lounge, a post office with individual mail boxes, and an adequate parking lot make this residence hall a very well equipped facility. This hall was named to honor Dr. W. F. O'Donnell, President-emeritus of Eastern Kentucky University.

PALMER HALL

Palmer Hall is a completely air-conditioned dormitory providing living facilities for 300 men students. The building was named to honor Mr. Wilson Palmer, a member of the Board of Regents.

TODD HALL

Todd Hall, the twin to Dupree Hall, is a twelve story dormitory that provides space for 320 men students and is fully air-conditioned. Todd Hall was named to honor Dr. Russell I. Todd, a current member of the Board of Regents.

WILLIAM KEENE HALL

William Keene Hall was named to honor Mr. William Keene, former member of the English faculty of the University. The 16 story air-conditioned facility was designed to house 616 men students and is the first unit in a planned dormitory complex for men. The facility will be ready for occupancy during the 1968-69 academic year.

FAMILY HOUSING FACILITIES

BROCKTON

Brockton is the family housing project at Eastern. It consists of 144 modern fire-resistant apartments in all. There are 72 efficiency units, 41 one-bedroom units, and 32 two-bedroom units.

The apartments are furnished with an electric refrigerator and gas range. The efficiency units also contain a sleeper couch and a five-piece dinette set. Each apartment has an individual thermostatically-controlled gas furnace, tile floors, and a coustical ceilings. The bath includes both shower and tub. A coin-operated laundry with both washers and driers is conveniently located in the project area.

Brockton was named in honor of George Marshall Brock, who has been associated with the University since 1918, and as Business Agent or Comptroller since 1923.

TRAILER PARKS

Two modern trailer park areas have been constructed adjacent to Brockton. Paved roadways, landscaped areas, adequate space and complete utility services are included. Both parks accommodate trailers of all sizes.

VICKERS VILLAGE

Vickers Village provides modern housing for faculty members and their families in its 34 units. There are 18 two-bedroom apartments in nine duplexes, and 16 two-bedroom apartments located in two eight-unit buildings. The Village is located just off the Eastern by-pass. It is named for John L. Vickers, executive assistant to the President.

OTHER FACILITIES

In addition to the residence units listed herein, the University owns or operates several other facilities for the housing of students. Among these are the Lancaster House and Stateland House for single men students and several apartments and dwellings on campus for the housing of faculty and staff.

OTHER BUILDINGS

KEEN JOHNSON STUDENT UNION BUILDING

The Keen Johnson Student Union Building contains club rooms for students, recreation halls, the Little Theatre, bookstore, soda fountain and grill, cafeteria, faculty rooms, and a spacious reception room. It was named in honor of a former Governor of Kentucky who was a member of the Board of Regents at the time it was constructed. In 1961 the Student Union Building was renovated and refurnished to provide more extensive services for students, faculty and friends of the University.

BLANTON HOUSE

The two-story brick residence, which is the President's Home, was constructed in 1886 as a residence for the Chancellor of Central University but did not become the property of the University until 1912. This residence has served as the home of Eastern's presidents since that date.

HANGER STADIUM

The Hanger Stadium was built by a donation from Mr. Arnold Hanger together with gifts from students, faculty, and friends of the University and supplemented by a Federal grant. The stadium has a seating capacity of 9,000 persons for intercollegiate football.

AULT SERVICE BUILDING

The Ault Service Building was named in honor of William A. Ault, who served the University for 45 years as Superintendent of Buildings and Grounds.

This modern facility was completed in 1962. The building not only provides modern shops and office space for the entire maintenance department, but serves as a central supply and storeroom for all departments on the campus.

UNIVERSITY FARM

The University operates a modern farm, engaging in dairying and production of various crops. The farm operation is located away from the main campus and is housed in up-to-date buildings, providing modern sanitary facilities for the production of food products.

ARLINGTON

The Arlington Estate, which features a three-story Georgian-style mansion encompassed by 181 acres of gently sloping Bluegrass land, will serve as a faculty-alumni club when restored to its original condition. The estate will also serve the University as a conference center as well as for instructional and recreational purposes by students and faculty.

The mansion and surrounding 15 acres, valued at a quarter of a million dollars, were the generous gift of construction industrialist W. Arnold Hanger. The remaining acreage was purchased by the Eastern Kentucky University Foundation.

MARY FRANCES RICHARDS ALUMNI HOUSE

The Mary Frances Richards Alumni House is a two-story frame home just off the main campus on Lancaster Avenue that houses the Office of Alumni Affairs. Named to honor Mrs. Richards, retired member of the Geography Department faculty and executive secretary of the Alumni Association for 19 years, the new alumni center has been remodeled to provide offices, a lounge, and conference areas.

Information for the Student

. . . .

Expenses and Living Accommodations . 22

Scholarships, Financial Aid and Student Employment . 27

Student Services and Activities . 30

The Alumni Association . 36

EXPENSES AND LIVING ACCOMMODATIONS

REGISTRATION FEES AND OTHER EXPENSES

The following list of fees is required of students. All fees must be paid at the time of registration. Incidental fees paid each semester entitle the student to use of the library, to use of the Student Union Building, and to other services as directed by the Board of Regents.

REGISTRATION FEES AND OTHER EXPENSES (Per Semester)

Effective September 1, 1968

Registration and Incidental Fees (Per Semester)		Kentucky Resident	Out-of-State Resident
Registration Fee:			
Full-time—Graduate and Undergraduate		$100.00	$350.00
Part-time—Undergraduate (Fewer than 12 Semester Hours), per hour		9.00	30.00
Part-time—Graduate (Fewer than 9 Semester Hours), per hour		12.00	40.00
Incidental Fee:		30.00	30.00
Full-time			
Includes: Health fee	$3.00		
Student Union fee:			
Classroom fee	5.00		
Activity fee	8.25		
Yearbook	3.75		
University Center Fee	10.00		
Part-time Includes Classroom fee		2.50	2.50
Registration and Incidental Fees (Summer Term)			
Registration Fee:			
Full-time—Graduate and Undergraduate		50.00	175.00
Part-time—Undergraduate (Fewer than 6 Semester Hours), per hour		9.00	30.00
Part-time—Graduate (Fewer than 6 Semester Hours), per hour		12.00	40.00

Incidental Fee:			
Full-time		15.00	15.00
Includes: Health fee	$1.50		
Student Union fee:			
Classroom fee	2.50		
Activity fee	6.00		
University Center Fee	5.00		
Part-time		1.25	1.25
Includes: Classroom fee			

Special Fees	Per Course
Home Economics	
204, 215	$ 7.50
302	5.00
Health and Physical Education	
Locker Fee	4.00
Music	
Full-time Music Major	35.00
Part-time Music Major	17.50
Full-time Non-Music Major	30.00
Military Science	
Uniform Deposit	7.00
Other Expenses	2.00
Other Expenses	
Late Registration Fee (per day late)	1.00
Voluntary change of schedule	2.00
Transcript Fee (other than initial copy)	1.00
Graduation Fee (includes cost of diploma, cap and gown rental, and other graduation expenses)	
Baccalaureate Degree	7.50
Master's Degree	20.00
Post Office Box Rent	1.00
Returned Check Assessment	5.00

(All fees are subject to change without notice)

UNIVERSITY YEARBOOK

A portion of the incidental fee each semester goes toward the cost of the University yearbook, the Milestone. The portion collected the first semester provides for the student photograph to be included in the yearbook. The portion collected the second semester provides for the printing cost of the yearbook.

DEFINITION OF RESIDENT STUDENT FOR FEE ASSESSMENT PURPOSES

The following policy, adopted by the Council on Public Higher Education, Commonwealth of Kentucky, in accordance with Section 164.020(2) of the Kentucky Revised Statutes, is applied to determine a student's eligibility for fees assessed Kentucky residents who enroll at any of the state-supported institutions of higher learning in the Commonwealth of Kentucky. This determination is made at the time of initial enrollment and shall not be changed thereafter except as provided below.

A student under twenty-one years of age is eligible to register as a resident of Kentucky if his parent or legal guardian has maintained continuous residence in the Commonwealth for twelve months immediately preceding his original enrollment. No person shall be considered to have gained residence in the Commonwealth while a student unless or until his parent or legal guardian moves into the Commonwealth and acquires residence. If a student is registered as a resident of the Commonwealth and his parent or legal guardian thereafter moves out of the Commonwealth, the student will become a non-resident at the beginning of his next enrollment. If the parents have different domiciles, the domicile of the parent who has legal custody of the student's person shall be considered the domicile of the student.

A student twenty-one years of age or older is eligible to register as a resident if he has maintained continuous residence in the Commonwealth for twelve months immediately preceding the date of his original enrollment, exclusive of any time spent in attendance at any institution of higher learning. An adult student registered as a non-resident upon his original entrance cannot generally thereafter acquire resident status.

An adult student from out-of-state who seeks residence status must assume the burden of proving conclusively that he has been a resident of the Commonwealth the requisite time with the present intention of making his permanent home in this state. In general, it is assumed that the intent to remain indefinitely in the Commonwealth is evidenced not only by what a person states but what a person has actually done. Normally, persons with intent to establish residence will be expected to have done all those things which a person customarily does when establishing a permanent residence, some of which are: obtaining full time employment, establishing a home, buying property, filing tax returns, transferring or establishing church membership, affiliating with local organizations, and the various other things which give evidence of intent to remain indefinitely within the Commonwealth.

Each Board of Trustees or Board of Regents is authorized to establish a Non-Resident Fees Committee to consider changes in resident status based on the above criteria. Application for change of resident classification should be made to the person who has been designated by the Board of Trustees or Regents as the Chairman of the Non-Resident Fees Committee. The Chairman will present each case to the Committee for a final decision.

This policy shall be applicable with exceptions allowable for possible conflicts with state and federal laws relating to residency such as the Federal Soldiers and Sailors Relief Act.

LIVING ACCOMODATIONS

Eastern Kentucky University maintains a number of residence halls for single students. Within limits of the capacities of these halls all single students not living at home are **required** to live in University facilities. No single student should make a housing contract to live in town unless permission has been secured from the Dean of Students. When the capacity of the halls has been reached, single students may secure lodging in Richmond homes. Names and addresses of those who have rooms for rent will be listed with the Housing Secretary. The student applicants must select rooms from the lists in the Housing Secretary's Office, Coates Administration Building. All students, whether living in University or private facilities, are subject to regulations and supervision of the University. Single students will not be given permission to live in apartments and trailers.

All rooms have single beds for which pillows, pillow cases, and sheets are furnished. The University bears the expense of having these sheets and pillow cases laundered. Each student is expected to provide his own blankets, towels, and similar articles.

Residence Halls for Women	Rent for Semester (Includes $7.00 Linen Service)	Rent for Summer (Includes $4.00 Linen Service)
Burnam	$115.00	$57.50
Case	115.00	57.50
McGregor	125.00	62.50
Sidney Clay	125.00	62.50
Sullivan	115.00	57.50
Telford Hall	125.00	62.50
Walters	125.00	62.50
Residence Halls for Men		
Combs	$125.00	$62.50
Dupree	125.00	62.50
Keene Hall	125.00	62.50
Keith	115.00	57.50
Martin	115.00	57.50
Mattox	115.00	57.50
Miller, Beckham, and McCreary	115.00	57.50
O'Donnell	115.00	57.50
Palmer	125.00	62.50
Todd	125.00	62.50
Commonwealth	125.00	62.50
Telephone Service (if available)		
Per Student	$12.00	$6.00

All charges are subject to change without notice.

RESIDENCE HALL

POLICIES

All students desiring housing at Eastern Kentucky University should complete an application for a room reservation and forward it to the Housing Secretary, Office of Student Affairs, Eastern Kentucky University, Richmond, Kentucky.

An advance rental payment of $50.00 should accompany the application. This payment is necessary before a reservation will be made. It will be applied to the rent for the first semester following enrollment. The advance payment will be refunded in full if cancellation is received by August 15 for the first semester, January 15 for new students for the second semester, or May 15 for the summer term respectively.

Reservations will be held only through the day preceding the first day of classes, unless students have made arrangements with the Residence Hall Director for late arrival.

Partial refunds of rentals after a room is accepted may be made only in exceptional instances. In no case shall a refund of rent be made to students moving from University housing at their convenience.

Room rent is paid by the semester and is due and payable at registration.

STUDENT IDENTIFICATION CARD

Each full-time student who has paid the full fees for a semester, including the activity fee, will be issued a personal identification card. This card entitles the student to admission to all University athletic contests on the campus and to certain other programs sponsored by the University. It must be carried by the student at all times for official identification on the campus, and all full-time students must have a validated ID card before registration is completed.

Each part-time student is issued a non-laminated card for identification purposes only. It is not valid as an activity card.

If the full-time student card is lost, it must be replaced. A replacement fee of $10.00 is assessed. Application for replacement must be made at the Office of Student Affairs.

REFUND POLICY

Refunds on fees and room rental charges, when authorized, shall be made on a schedule based on the time elapsed during the semester or summer term. During the semester, refund of a portion of the fees and room rental paid shall be made as follows: first and second weeks, 75%; third and fourth weeks, 50%; fifth and sixth weeks, 25%. After six weeks no refunds will be made. During the summer term, the following schedule will determine the portion refunded: first week, 75%; second week, 50%; third week, 25%. After three weeks, no refund will be made. (For the purpose of this calculation, the week will begin with the first day of registration for the semester or summer term.)

The percentage of refunds shall apply to all fees and room rentals paid, except that no refund can be made on fees collected for student insurance premiums, class dues, and similar fees.

FOOD SERVICE

The University operates several food service facilities on the campus. Large modern, air-conditioned cafeterias in the Johnson Student Union Building, Martin Hall, and Sidney Clay Hall serve attractice, wholesome meals at reasonable prices. In addition, snack bars are located in the Johnson Student Union Building, Case Hall, Martin Hall, Mattox Hall, and Weaver Health Building.

SCHOLARSHIPS, FINANCIAL AID, AND STUDENT EMPLOYMENT

SCHOLARSHIPS

The William Davis Scholarship. Under the provisions of the will of the late William Davis of Newport, Kentucky, a sum of money was left for the benefit of the student living in the Lona Estella Davis school district of Rowan County. Scholarships of $200.00 each are awarded by the Superintendent of Rowan County schools and the President of Eastern Kentucky University. A student desiring to secure one of these scholarships should write to the Chairman of Student Aid Committee, Eastern Kentucky University, or make application to the Superintendent of Rowan County Schools.

The Myrtle Mae Sloan Memorial Fund was established in 1959, in memory of Miss Myrtle Mae Sloan, by her sister, Miss Viva Odean Sloan, resident of Berea, Kentucky. The income from this fund will be paid to a high ranking student who needs help to enable him or her to remain in college.

The Lily Christopher Ogg McWhorter Memorial Fund was established in 1959, in memory of Mrs. Nina Ogg Peake and William Emery Ogg, graduates of Eastern, by their sister, Mrs. Lily Christopher Ogg McWhorter. They were all residents of Madison County. The income from this fund is to provide financial aid for persons of good ability but of little money.

In the field of Music there are three scholarships awarded annually to those students who make the most satisfactory progress in piano, voice, and violin.

Phi Delta Kappa Scholarship. The Eastern Kentucky University Chapter of Phi Delta Kappa, an education fraternity for men in education, awards a full tuition scholarship each year to a full-time male graduate student. Applications and information may be secured by writing to the Graduate Office. Applications must be submitted by July first of each year.

ROTC Scholarships. Under the provisions of Public Law 88-647 a limited number of two year ROTC scholarships are available for award to outstanding military students who have completed the basic ROTC course. These scholarships provide for payment of tuition, fees, book costs, laboratory expenses and subsistence pay of fifty dollars ($50.00) per month. Selection of individuals will be based on criteria established by the Secretary of the Army and by action of an on-campus board consisting of the Professor of Military Science and other representatives from the faculty.

LOAN FUNDS

The National Defense Student Loan Program at Eastern provides loans for students. Priority is given to all students who have superior records in high school and college. To get application forms and a statement of conditions relating to the loans, applicants should send their requests to the Office of Student Financial Assistance, Eastern Kentucky University.

The Student Aid Society Inc. Loan Fund of Eastern Kentucky University is designed to help worthy students complete their education. It has been augmented from time to time by gifts from different individuals and organizations and is being increased annually. Small loans are available to upperclass students who are currently enrolled. Those having high scholastic records will be given preference in the granting of loans. This fund makes it possible for a student to borrow a small amount of money on a personal note at a legal rate of interest. Students who desire further information concerning this fund should get in touch with the Chairman of the Student Aid Committee.

United Student Aid Fund

Eastern Kentucky University is a participant in the United Student Aid Fund (Guaranteed Loan Program). The United Student Aid Fund is a private non-profit corporation which endorses loans made by hometown financial institutions to deserving individuals who are either currently enrolled or have been accepted for admission to Eastern Kentucky University. The application for such a loan must be endorsed by Eastern Kentucky University before submission to the bank or other financial institution.

Under this program a full-time undergraduate student may borrow up to $1,000 per academic year and a full-time graduate student may borrow up to $1,500 per year. To qualify for this assistance a student must be from a family whose adjusted income does not exceed $15,000 per year. Applications and further information for a guaranteed bank loan may be obtained from the student's hometown bank or other financial institution or by writing the Office of Student Financial Assistance.

STUDENT EMPLOYMENT

There is opportunity for student employment, whereby a limited number of students may earn part of their expenses by working in the cafeteria, library, bookstore, post office, dormitories, administrative offices, University dairy and farm, maintenance department, and faculty offices. Some students may also secure part-time employment in Richmond stores, restaurants, and other businesses.

Student labor should be limited so that work hours will not take too much of the student's study time. While ten hours per week is an average labor load, circumstances may permit a student to work more hours. No student, however, should enter the University without sufficient money for the semester unless there is a definite guarantee of work to support him. For further information and application forms, write to the Office of Student Financial Assistance, Eastern Kentucky University.

THE WORK-STUDY PROGRAM

Under a grant from the Federal Government, made possible by the Economic Opportunity Act of 1964, eligible students may be employed on a part-time basis while in full-time enrollment at Eastern. This program supplements the part-time Institutional Program which has been in effect at Eastern for many years.

A student or prospective student from a low-income family is eligible for employment under the Federal Work-Study Program. The student must enroll for a minimum of twelve semester hours of course work each semester and maintain at least a "C" average.

Placement in jobs will depend upon the skills, interests, and aptitudes of the student and the availability of positions open at a given time. Students may work up to 15 hours per week and can earn up to $20 per week, depending upon the type of job assigned. Payments are made to the student employee on a semi-monthly basis.

Students may continue working under this program as long as their academic performance and job performance are satisfactory.

EDUCATIONAL OPPORTUNITY GRANTS PROGRAM

The higher Education Act of 1965 initiates a program of **Educational Opportunity Grants** to assist in making available the benefits of higher education to qualified high school graduates of exceptional financial need, and who would not be able to obtain the benefits of education without such aid. To qualify for the program, the student must be taking at least twelve semester hours of course work each semester and be an undergraduate in good standing.

This program is combined with other programs of financial assistance (the National Defense Loan Fund and the Work-Study Program mentioned above) to the extent necessary to enable the student to meet his educational expenses.

It is the policy of the administration that prospective students should have a high school scholastic standing of "C" or better in order to apply for student financial aid. A statement from the student's principal or guidance counselor should accompany the application to verify the high school scholastic standing.

For further information and an application form, write to the Office of Student Financial Assistance.

OTHER FINANCIAL ASSISTANCE

The Veterans Program at Eastern Kentucky University is approved by the Veterans Administration for the education of veterans and their eligible dependents. Students concerned with veterans training should have, at the time of registration, a Certificate of Eligibility. This is secured from the Regional office of the Veterans Administration. The University is responsible for the completion of certain Veterans Administration forms and for the other necessary information about students who receive this aid.

If you have completed courses while in the Armed Forces, ask the Registrar about the possibility of receiving credit for such courses.

VOCATIONAL REHABILITATION

Vocational Rehabilitation for students with physical handicaps of various kinds may be approved. They may receive financial benefits as approved by the Department. Students who wish to consult with a representative relative to vocational rehabilitation should write the Department of Education, Department of Vocational Rehabilitation, Frankfort, Kentucky, for specific instructions.

STUDENT SERVICES AND ACTIVITIES

Eastern Kentucky University strives at all times to furnish services and activities which make the campus a home away from home. Our services are concerned with all phases of students' lives, and are so organized that we attempt to help every student to realize his or her own possibilities. Caring for personal and social needs, promoting the maximum growth of every student, and developing effective programs to meet the needs of a changing student body in a shifting world social scene receives high priority in the minds of our faculty, staff and administration.

Our operating policies represent the combined wisdom of students, faculty, and administration. Our services to students are coordinated through the student personnel programs and administered by a group of people who have a genuine interest in developing ideal programs to meet the needs of one of the largest student bodies in Kentucky. While it isn't possible to list in detail all the specific activities and services to students, you will find many of them described in ths catalog.

It is important that students pay close attention to all official campus publications, such as Campus Calendar, *Progress,* handbooks, bulletin board announcements, etc., in order to learn of the many student services and activities.

STUDENT HEALTH SERVICES

The health of Eastern students is cared for by the University Physician and a staff of registered nurses. The Infirmary is open during regular school hours for normal examination and treatment, and a staff member is available for emergencies which might arise after regular office hours. The modern Infirmary has 10 beds for short-term illness or overnight care, when required. Serious illness or required surgery will be referred to one of the several general hospitals in the area.

All new students must have a physician perform a complete physical examination and complete a medical record which is furnished the student when admissions information is being filed. The Medical Record is a part of admissions; and after the student is admitted to the University, the Medical Record becomes a part of the student's health folder and is filed at the University Infirmary. With this information, it is possible to be of greater assistance to all full-time students who use the Infirmary services.

In addition to Student Health Services, the University provides instruction in first aid, personal hygiene, safety, and community hygiene.

STUDENT AUTOMOBILES

On July 9, 1962, the Council on Public Higher Education adopted a policy concerning the possession and operation of motor vehicles by students at the University of Kentucky and the five State colleges. In conformance with the Council policy, Eastern has adopted the following: Students registered as freshmen (0-29 hours) do not have auto privileges. All sophomores (30-59 hours) with less than a "B" average are forbidden to possess and/or operate a motor vehicle in Madison County, Kentucky. Sophomores with a "B" average or above who are not on social probation are eligible for auto privileges. All juniors and seniors who are not on academic or social probation are also eligible for auto privileges.

Students who bring motor vehicles to Madison County, Kentucky and are not eligible for automobile priveleges will be asked to return the vehicle to their homes immediately. They will be subject to the motor vehicle regulations which impose assessments for violating the policy.

GUIDANCE AND COUNSELING

Through its Student Affairs Offices, the University relates to students in various aspects of campus life. Some of the more specific areas are: (1) admission and re-admission; (2) orientation of freshmen and transfer students; (3) physical and mental health of students; (4) coordination of student activities and clubs; (5) on-campus and off-campus living; (6) maintenance of personnel records; (7) operation of a student counseling office; (8) registration; (9) foreign student advisement; (10) social programs; (11) veterans affairs; and (12) student financial assistance.

The entire University faculty and administrative staff assists in various aspects of student personnel work co-ordinated through the Office of the Vice President for Student Affairs. Students are encouraged to become responsible citizens not only at Eastern but also in later life as citizens of communities, citizens of a democracy, and professional people. Immediate emphasis is directed toward those activities which assist students in attaining maximum personal, social, and academic growth in a stimulating environment.

Students may avail themselves of personnel services at any time. They are encouraged to utilize any of the available counseling and advisor services, and they may be referred by members of the faculty. More specifically, students have counseling contacts with dormitory counselors, residence directors, Dean of Men, Dean of Women, and their office staff.

ATHLETICS AND RECREATION

Eastern offers a fine and varied athletic and recreational program for both men and women students. It consists of three major programs: Intercollegiate Athletics, Intramurals for Men, and Women's Recreation Association activities for women.

Eastern Kentucky University is a member of the Ohio Valley Athletic Conference and the National Collegiate Athletic Association. The Ohio Valley Conference annually produces teams that have top ranking among universities and colleges in the United States. In addition to these conference contests, representative teams from other parts of the country are scheduled. Intercollegiate competition is carried on in eight different sports. They are: football, basketball, swimming, tennis, golf, track, cross country, and baseball.

SOCIAL ACTIVITIES

The Social Committee of the University arranges a multitude of social activities for the benefit of Eastern's students. Such activities as movies, dances, receptions, and parties are planned so the student can achieve maximum enjoyment. The School Calendar lists all approved social activities. The Dean of Women co-ordinates the activities on campus. Every student has the chance to participate in a leisure time activity of his or her choice.

STUDENT ORGANIZATIONS

The student organizations, societies and clubs form an intrinsic part of the program of Eastern Kentucky University that fulfills academic, social and religious functions. The student organizations at Eastern offer varied activities to encompass the interests of all students

Honor Societies: Collegiate Pentacle, Cwens, Kappa Iota Epsilon, Omicron Alpha Kappa.

Departmental Organizations: Accounting Club, Agriculture Club, Alpha Phi Gamma, Alpha Psi Omega, American String Teachers' Association, Association for Childhood Education, Association of United States Army, Biology Club, Caduceus Club, Canterbury Club, Chemistry Club, Counter-Guerrilla Raider Company, Delta Omicron, Delta Sigma Rho-Tau Kappa Alpha, Drum and Sandal, Eastern Little Theatre, Gymnastics Club, HPER, Home Economics Club, Industrial Education Club, Kappa Delta Pi, Kappa Kappa Sigma, Kappa Pi, Music Educators National Conference, Pershing Rifles, Phi Alpha Theta, Phi Mu Alpha

Sinfonia, Physics Club, Pi Omega Pi, Polity Society, Polymathologists, Scabbard and Blade, Sigma Tau Pi, Student National Education Association, Women's Officiating Services, and Women's Recreation Association.

Religious Organizations: Baptist Student Union, Christian Science College Organization, Christian Student Fellowship, Church of Christ, Deseret Club, Episcopal Canterbury Club, Inter-Faith Council, Newman Club, Pi Tau Chi, Wesley Foundation, Westminster Fellowship, YMCA, and YWCA.

Class Organizations: The Freshman, Sophomore, Junior, and Senior Classes each have organizations for the purpose of improving student life at Eastern.

Activity Organizations: Kyma Club, Varsity E Club, Young Democrats Club, and Young Republicans Club.

Service Organizations: Appalachian Volunteers, Circle K International, Kappa Delta Tau, Men's Inter-Dorm Council, Student Council, and Women's Inter-Dorm Council.

County and Regional Clubs: Twenty county and regional clubs are now organized on the campus. These organizations promote social events, encourage good academic achievement, and serve as recruiting agencies.

Other Student Organizations: Alpha Zeta Kappa, CIRUNA, and Veterans Club.

LOCAL SOCIAL FRATERNITIES AND SORORITIES

Sororities: Alpha Pi Kappa, Delta Theta Pi, Lambda Phi Omega, and Pi Alpha Theta.

Fraternities: Alpha Chi Iota, Alpha Chi Lambda, Alpha Kappa Pi, Beta Omicron Chi, Delta Chi Theta, Gamma Delta Tau, Kappa Tau Epsilon, and Sigma Chi Delta.

STUDENT PUBLICATIONS

THE EASTERN PROGRESS, weekly student newspaper, is the official student publication of the University, and all students are encouraged to take advantage of the journalism training offered by the Progress organization.

THE MILESTONE is the University yearbook. Published annually, this publication contains photographic and statistical records of events of the University year. The book is distributed during the last two weeks of the spring semester.

Both the PROGRESS and the MILESTONE have received numerous national awards in recent years and are ranked annually among the top student publications in the nation.

BELLES LETTRES is a magazine of student writing edited and published by the Canterbury Club, an organization of English majors and minors who meet monthly to encourage interest in literary activity.

The magazine accepts poems, one-act plays, and short stories from any student. It is issued each year near the end of the spring semester.

CULTURAL ACTIVITIES

Every effort is made at Eastern to surround the students with cultural advantages. The programs presented are planned as part of the student's education and much time and effort is put forth to provide programs that will be of benefit to students.

Assemblies are held regularly and special assemblies are held when the occasion warrants. While programs at these assemblies are designed primarily for the students and faculty, visitors to the campus are welcome to attend. Programs planned for these assembly periods include appearances by nationally recognized lecturers and artists. Programs are provided on other occasions by lecturers or musical groups which have relationship to the University. Many fine programs are furnished by the Music Department of the University. Important University matters are officially presented to the student body by the President.

Freshmen are required to attend assembly as a part of their orientation course.

Concert Series are presented at the University in cooperation with the Community Concert Association. Students are admitted to these excellent programs without charge, but they must present identification cards for admission. These programs feature some of the outstanding individuals and groups in the nation.

Art Exhibits, arranged by the Art Department, are on continuous exhibition in the Art Gallery, Cammack Building. Every effort is made to include in the exhibits the works of major artists, past and present, from across America and around the world. Also included are the works of art students, art majors, and faculty. In addition, special exhibits are sometimes arranged for showing in the Student Union Building.

Church Affiliation is recognized as an important factor in the life of any student. Eastern is a state-supported institution and is, therefore, non-denominational. The University has a basic objective in helping to develop ethical character among all students. There is close cooperation between the institution and several fine churches in Richmond. Students are encouraged to attend church services in town. Eastern makes spaces available for several student church organizations to meet on the campus.

Presently, two downtown churches have built student centers adjoining the campus. Other student centers will be built in the near future on sites which have already been purchased.

Plays presented by Eastern Little Theatre are a significant contribution to Eastern's cultural life. Three major productions each year, along with studio productions, and a drama program in the summer, provide numerous opportunities in acting, directing, and technical theatre. Participation in every aspect of the theatre program is open to all students.

In conjunction with the theatre program, there is a chapter of Alpha Psi Omega, National Honorary Dramatics Fraternity which gives recognition to students of outstanidng acting and technical ability.

Eastern Little Theatre is affiliated with the following professional dramatics and speech organizations: American National Theatre and Academy, American Educational Theatre Association, Speech Association of America, United States Institute of Theatre Technology, South Eastern Theatre Conference, Southern Speech Association, Kentucky Speech Association, and the Kentucky Council of Performing Arts.

STUDENT AWARDS

The Delta Alpha Chapter of Kappa Delta Pi annually presents two cash awards to the outstanding sophomore man and woman with the highest scholastic standing who plan to enter the teaching profession.

The Dr. Russell I. Todd Award is presented annually at the June commencement to the Eastern student judged to have made the most worthy and constructive use of his or her academic and leisure time. A faculty committee appointed by the President will select the recipient of this monetary award.

The Friendship Cup is awarded each year at Honors Day ceremonies by an anonymous donor. The award is a mint julep cup on which is inscribed the student's name under the words "Friendship Cup." The Student Council makes the selection each year of the most friendly student on campus.

The Gladys Perry Tyng Award for excellence in elementary education is presented annually by the College of Education to a senior man and woman. The certificates of award are given in honor of Mrs. Tyng, who was associated with the elementary education program at Eastern as professor of education from 1920 to 1961.

The Charles F. Weaver Fund is a fund of $1,000.00 established by the late Charles F. Weaver, long-time member of the Board of Regents, to encourage proficiency in oratory and home economics. The income from the fund is used to provide prizes to be awarded annually to the male student who excels in oratory and to the female student who has made the greatest advance in the field of home economics. The recipients are selected by a faculty committee.

The W. L. Keene Award for Oratory was established by Eastern in 1964. The award is given to the woman student who excels in oratory. The award is comparable to the Weaver Oratorical Award for men. Any woman student at Eastern may enter the oratorical contest. The award was named in honor of W. L. Keene, professor of English at Eastern.

The Roy B. Clark Award is made possible by the will of the late Roy B. Clark, who was a teacher of English and head of the English department for many years. Dr. Clark left a $1,000 bequest to the University. The income from this money is to be awarded annually to the student who writes the best prose fiction published in *Belles Lettres*. The recipient will be selected annually by a faculty committee.

The Anna D. Gill Award is a fund established in memory of Miss Anna D. Gill, long-time faculty member of the College of Business. The income from this fund will be awarded annually to the outstanding senior business student.

A Student Service Award is presented annually by members of the Young Men's and Young Women's Christian Association to that member of the graduating class who, during his or her four years at Eastern, has given the greatest measure of service to fellow students.

The Yeager, Ford & Warren Award is for the purpose of stimulating an interest in the study of accounting and related subjects and encouraging the entrance of young men in the field of professional accounting. The $100.00 award is given at the end of the junior year to the student selected by the College of Business as most likely to succeed in the practice of public accounting.

PLACEMENT OFFICE

The Placement Office is maintained by the University and is a free service to assist students and alumni in obtaining positions in schools, business, and industry. Its concept is that it only helps job candidates to meet employers; it does not guarantee a job for the candidate.

Each year, schools, industry, business, and government agencies come to this office searching for graduates with specific background, experience, and ability to fill their positions and vacancies.

The Placement Office provides up-to-date job listings in numerous fields. It offers the applicant opportunities to have interviews with numerous prospective employers.

The Placement Office prepares and distributes bulletins to those who have filed a request. The bulletins list all known employment opportunities supplied by employers by letter, telephone, telegraph, or through their own placement bulletins.

Students receive the information via campus bulletin boards, department heads, and the Eastern Progress, the weekly student newspaper. Alumni receive the listings by mail and through the Progress, which they receive every two weeks.

THE ALUMNI ASSOCIATION

The Alumni Association of Eastern has as its purpose to promote fellowship among the graduates and to stimpulate mutual interest and concern between the University and the Alumni. Eastern now has nearly 16,000 graduates. Many of these men and women hold more than one degree from the University. All Eastern graduates are members of the Eastern Alumni Association, "with all the rights and privileges appertaining thereto." All former students who have as much as a semester's work at Eastern, former faculty and staff members, are eligible for associate membership. The Alumni Association encourages all alumni to make an annual gift to the Alumni Fund each year. The minimum gift is $3.00, which serves as the "dues" for active membership in the Association. This is used by the Association's Alumni Office to help defray operating expenses. The remainder of any contribution will be used for the specific purpose designated by the contributor. Annual active membership is obtained by making an annual contribution of at least $3.00, or $5.00 for a joint membership (husband and wife). Life memberships are $75.00 for single and $100.00 for joint memberships.

The Alumni Association sponsors Homecoming in the fall, KEA breakfast in the spring, and Alumni Day at commencement time. The latter features an Alumni Dinner honoring the 15, 25, 40, 50 and 60 year classes, and the presentation of an Outstanding Alumnus Award. In addition, active Alumni Chapters at Louisville, Greater Cincinnati, Ashland-Huntington-Ironton (Tri-State) area, Pulaski County, Pike County, Perry County, Harlan County, Breathitt County, Fayette County, McCreary County, Dayton and Hamilton, Ohio, Washington, D. C., and three in Florida, have numerous meetings throughout the year open to all alumni and former students in the area. Many more Eastern Alumni Chapters are expected to be installed in the future.

The Eastern Alumni Association is a member of the American Alumni Council and the Joint Alumni Council of Kentucky an organization made up of the alumni of the six state-supported institutions: Eastern Kentucky University, Morehead State University, Murray State Unversity, Western Kentucky University, University of Kentucky and Kentucky State College.

The Eastern Alumnus, official magazine of the Alumni Association, is published each fall and spring by the Association for its members. Subscription is included in the membership dues.

The Alumni Office is conveniently located in the Mary Frances Richards Alumni House just off the campus on Lancaster Avenue where alumni and students may get bulletins and information. This is a good place for former students to find the addresses of their colleagues. Graduates, former students and faculty members are always welcome at the Alumni Office.

General Academic Information

. . . .

Admission to the University . 40

Academic Programs . 41

Academic Regulations . 50

ADMISSION TO THE UNIVERSITY

I. **Methods of Admission.**—Candidates for admission to Eastern may be approved in any of the following ways:

A. **High School Graduation.**

1. Students who graduate from an accredited high school may be admitted to the freshman class on the basis of an official transcript and a recommendation from the principal.

B. **By Special Approval.**

1. Students who have one unit less than the number required for high school graduation, with superior grades, may be admitted provided the high school principal recommends that the student is qualified to do college work.
2. Veterans who have a minimum of twelve units of high school work and have successfully passed the G.E.D. tests may be admitted provided their test at Eastern shows that they rank as high as the average freshman entering college.
3. Persons over 21 years of age who wish to pursue courses as special students without reference to graduation may be granted the privilege if they have adequate preparation for the courses desired.

C. **By Advanced Standing.**

1. Students who have attended other colleges or universities are admitted to the University upon presentation and approval of credits from accredited institutions. So that proper evaluation and acceptance can be made, applicants transferring from other colleges and universities should present their applications at least ten days prior to the day of registration for the semester or summer term in which they plan to attend.
2. A maximum of 67 semester hours of credit will be accepted from accredited junior colleges.

II. **Applications for Admission.** — Applications for Admission to the Eastern Kentucky University cannot be unconditionally approved until transcripts of credits are filed in the Admissions Office. As soon as possible after an Application for Admission and a Transcript of Credits are received, the candidate will be notified whether or not he is accepted.

It is the responsibility of the applicant to have the following items sent to the Admissions Office prior to the opening date of a term:

1. An application for admission, properly filled out by the applicant, should be made upon a regulation blank furnished by the Dean of Admissions.

2. A transcript of the secondary school credit, issued after graduation, should be mailed directly by the principal to the Dean of Admissions.
3. An official transcript of any college or university credits and a statement of honorable dismissal, regardless of whether or not the student received credit for the work, should be mailed directly to: The Dean of Admissions, Eastern Kentucky University, Richmond, Kentucky 40475.

ACADEMIC PROGRAMS

DEGREES

The Associate of Arts degree is conferred upon students who finish the two-year curricula in agriculture, executive secretarial program, electronic data processing, food service technology, industrial education, industrial technology, law enforcement, nursing, recreation, supervision, and vocational crafts.

The Bachelor of Arts degree is conferred upon students who major in anthropology, art, drama, English, French, geography, German, history, Latin, library science, music, philosophy, political science, Russian, social science, social work, sociology, Spanish, speech, speech and drama, and speech pathology.

The Bachelor of Science degree is conferred upon students who major in agriculture, biology, business education, chemistry, dietetics, earth science, economics, food service management, elementary education, geology, health and physical education and recreation, home economics, industrial education. industrial technology, law enforcement, mathematics, physical education, physics, psychology, recreation, school health, and wildlife management.

The degree of Bachelor of Music, Bachelor of Music Education and Bachelor of Business Administration are conferred upon students who complete the appropriate curricula.

The Master of Arts degree in Education is conferred upon students who complete the graduate program designed to meet the needs of teachers, supervisors, guidance counselors, educational administrators, etc.

The Master of Arts degree is conferred upon students who complete the graduate program in English, geography, history, or guidance and counseling for non-school personnel.

The Master of Business Administration degree is conferred upon students who complete the curriculum in business administration.

The Master of Music Education degree is conferred upon students who complete the graduate program in music education.

The Master of Science degree is conferred upon students who complete the graduate programs in biology, chemistry or psychology.

COLLEGE OF APPLIED ARTS AND TECHNOLOGY

Baccalaureate Degree Programs

Areas of Concentration

- Home Economics (teaching and non-teaching, *Dietetics, and *Food Service Management)
- Industrial Education (Manual Arts Therapy, Industrial Arts Teacher Education, Vocational-Industrial and Technical Teacher Education)
- *Industrial Technology (Drafting, Electronics, Graphic Arts, (Metals)

Majors

- *Agriculture
- *Home Economics
- Industrial Education (Industrial Arts Teacher Education)
- *Industrial Technology (Drafting, Electronics, Graphic Arts, Metals)
- *Law Enforcement

Associate Degree Programs

- *Agriculture (Dairy Science, Farm Machinery, Ornamental Horticulture)
- *Food Service Technology
- *Industrial Technology (Drafting, Electronics, Graphic Arts)
- Industrial Education (Vocational-Industrial and Technical Teacher Education
- *Ky. School of Crafts (Vocational Crafts)
- *Law Enforcement (General, Industrial Security, Juvenile, Corrections)
- *Nursing

*non-teaching programs

COLLEGE OF ARTS & SCIENCES

Baccalaureate Degree Programs

Areas of Concentration

- Art (teaching only)
- English (teaching only)
- Music
- Social Science (teaching only)

Majors:

- *Anthropology
- Art
- Biology
- Chemistry
- *Drama
- Earth Science (teaching only)
- English
- French

- Geography
- *Geology
- German
- History
- Latin
- Mathematics
- *Medical Technology
- Music
- Physics
- *Philosophy
- Political Science
- *Russian (teaching certificate with second major)
- Spanish
- Speech
- Speech and Drama
- *Social Work
- *Speech Pathology and Audiology
- Sociology
- *Wildlife Management

*non-teaching only

COLLEGE OF BUSINESS

Baccalaureate Degree Programs

Bachelor of Business Administration degree (four-year)

Major:

- *Accounting
- *Economics
- *Finance
- *General Business
- *Management
- *Marketing
- *Office Administration (secretarial)

Bachelor of Science

Area in Business Education

Majors:

- Business Education—Accounting
- Business Education—General Business
- Business Education—Secretarial

Associate of Arts Degree (two-year)

- *Executive Secretarial Program
- *Data Processing Program

Certificate Program (one-year)

- *Secretarial

*non-teaching

COLLEGE OF EDUCATION

Baccalaureate Degree Programs

Areas of Concentration:
  Elementary Education (teaching only)
  Health, Physical Education and Recreation (teaching only)

Majors:

Library Science (teaching only)
*Psychology (second major for teaching)
Physical Education
Physical Education—Corrective Therapy (teaching only)
*Recreation
School Health (teaching only)

*non-teaching only

Associate Degree Program:

Associate of Arts degree in Recreation Supervision

TEACHER EDUCATION CURRICULA

The curricula offered by the University have been planned and developed to meet the needs of students who desire to become teachers, principals, supervisors, superintendents, attendance officers in the public schools, and guidance counselors. Curricula are offered for the preparation of elementary teachers; for teachers of the special subjects of art, business, health and physical education, industrial arts, music, and vocational home economics; and for the preparation of high school teachers in fields of biology, chemistry, earth science, English, French, geography and geology, German, history, Latin, mathematics, physics, political science, psychology, Russian, social science, sociology, Spanish, speech, and speech and drama. These curricula lead to the baccalaureate degrees and the Master of Arts degree with right of certification.

ADMISSION TO THE TEACHER EDUCATION PROGRAM

Those who plan to work toward a teaching certificate must enroll in Education 202, Professional Orientation. This enrollment should be in the Sophomore year. During this course the application for the Teacher Education Program will be accomplished. Transfer students who have had a similar course prior to entrance to Eastern should enroll in Education 300, Issues and Trends in American Education. This must be done during the first semester of residence. The requirements for admission to the Teacher Education Program are: (a) one semester of residence at Eastern, (b) 2.00 grade-point average in all college work at Eastern, (c) satisfactory recommendations from four faculty members, one of which must be the instructor in Education 202 or 300.

When a student has been admitted to the Teacher Education Program, and not until then, he may enroll in the professional education sequence. No student will be enrolled in Education 317, Human Development and Psychology, or subsequent Education courses, without an admission card. If, after admission to the Teacher Education Program, a student is placed on either academic or social probation, his application will be reviewed.

CURRICULUM REQUIREMENTS

Each curriculum shall require:

1. an area of concentration, or
2. two majors, or
3. one major and two minors, or
4. one major and one minor when credit in both is 48 semester hours (54 when English is included as a major.)

SUPERVISED STUDENT TEACHING

Student Teaching is done in the campus laboratory school or in affiliated public schools. Students wanting to do Student Teaching must file an application sixteen weeks prior to the term in which they are to do their Student Teaching.

ADMISSION TO STUDENT TEACHING

A student of senior standing may enroll in Student Teaching if he has satisfied the following requirements:

1. one semester of residence at Eastern and admission to the Teacher Education Program;
2. completion of all prerequisites in professional education and major teaching field;
3. the recommendation of his major professor;
4. a standing of 2.25 based on hours attempted at Eastern in each of the following:
    a. entire college program,
    b. professional education courses,
    c. majors and minors or area of concentration;
5. meets the generally accepted standards of a professional person relative to health, art of communication, personality, and other characteristics of a good teacher;
6. files an application for Student Teaching at least 16 weeks prior to the term in which Student Teaching is desired;
7. has on file a physical examination report.

No student pregnant at the time of enrollment may enroll in Education 463, Supervised Student Teaching.

PROVISIONAL ELEMENTARY CERTIFICATE

The Provisional Elementary Certificate valid for ten years shall be issued to a person who completes a baccalaureate degree and meets the requirements for teaching in the elementary schools. A minimum grade of "C" must be earned in student teaching in order for a student to be recommended by this institution for a teaching certificate. The Provisional Elementary Certificate is valid on a continuing basis provided the certificate is registered at the end of each ten-year period in the

Division of Teacher Education and Certification of the State Department of Education on evidence of three years of teaching experience or twelve semester hours of additional graduate work.

The curriculum for the preparation of elementary teachers is given in the material under Education found subsequently in this catalog.

PROVISIONAL HIGH SCHOOL CERTIFICATE

The Provisional High School Certificate valid for ten years shall be issued to a person who completes a baccalaureate degree for the training of high school teachers. [A minimum grade of "C" must be earned in student teaching in order for a student to be recommended by this institution for a teaching certificate.] The Provisional High School Certificate is valid on a continuing basis provided that the certificate is registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on evidence of three years of teaching experience or 12 semester hours of additional graduate work.

Courses of instruction leading to the Provisional High School Certificate are to be found under the material of the various academic departments.

CERTIFICATE RENEWAL

Kentucky teachers earning the bachelor's degree in May, 1967, and subsequently are required within ten years of graduation to renew the provisional teaching certificate through completion of a planned fifth year of study. This requirement may be met by completing one of the several master's degree programs offered at Eastern: the Master of Arts, Master of Science, Master of Music Education, or Master of Arts in Education. It may also be satisfied by completing an approved fifth-year non-degree program. Institutional recommendation for the Rank 2 Foundation classification is given persons completing either of these programs. Persons completing the Master of Music Education or Master of Arts in Education degree program are recommended for the standard teaching certificate.

Graduate offerings for teachers at Eastern include: guidance and counseling, library science, reading, health and physical education, school or clinical psychology, music, elementary education, and the following secondary education areas: art, biology, business education, chemistry, English, geography, history, home economics, industrial education, mathematics, physics, and political science. Programs are described in greater detail in the **Graduate Catalogue.**

ADVANCED CERTIFICATES

Eastern offers curricula for the certification of school principals and supervisors. A sixth year of study is available in most teaching areas, for school leaders (principals and supervisors, endorsable for the superintendency), and for guidance counselors. Individuals interested in a joint doctoral program in education should make application prior to enrollment in a sixth-year program.

PRE-PROFESSIONAL CURRICULA

Pre-engineering 148
Pre-forestry 148
Pre-law 147
Pre-medical and pre-dentistry 150
Pre-optometry 148
Pre-pharmacy 149
Pre-veterinary 150

OTHER PRE-PROFESSIONAL CURRICULA

The University affords courses for students who plan to do specialized work in nursing, library science, theology, and other professional fields.

In addition to standard four-year pre-professional curricula, Eastern may approve specially arranged combined curricula. In these curricula, the student completes three years as outlined at Eastern to meet basic requirements and then transfer a year of successful work from a highly rated professional school in order to secure a B. S. or A. B. degree from Eastern Kentucky University. This plan may shorten by one year the time needed for obtaining both a baccalaureate and a professional degree.

PRE-LAW CURRICULUM

No fixed, comprehensive pre-law curriculum is usually prescribed in law schools. However, prospective law students should keep in mind that a broad, basic and liberal education will equip one to study law and also prepare him for a vital role in the community once he has acquired his professional training. Courses in accounting, economics, English, history, Latin or a modern foreign language, mathematics, the natural sciences, philosophy, political science, psychology, sociology and speech lend themselves to the breath of background needed by a law student and a lawyer.

The importance of a sound background in use of the English language cannot be stressed too greatly. A fundamental knowledge of grammar, a good vocabulary, an ability to read rapidly with understanding, an ability to express one's thoughts in a clear and organized fashion, are all absolutely essential to success in the study of law.

A pre-law student may either complete the degree requirements before applying for admission to a law college or in case of unusually demanding personal circumstances may apply for admission to a law college upon the completion of three academic years of undergraduate work. Eastern has arrangements with a number of law colleges whereby the freshman year in the law college can be transferred to Eastern and applied on the bachelor's degree. By this plan a student may earn both the baccalaureate and law degrees in six academic years. He must meet the following requirements to receive a bachelor's degree from Eastern:

1. He must gain at least 100 semester hours at Eastern, with a standing of 2.3 or more, before transferring to a law school.
2. He must have met the general education course requirements.
3. He must have completed at least 21 semester hours in a major and 15 semester hours in a related minor.
4. He must have been officially registered at this institution at least one full year, thirty-six weeks, immediately preceding the completion of his requirements in this institution, and must have completed at least 36 semester hours in residence at this institution.
5. He must spend at least one academic year in a College of Law approved by the Association of American Law Schools.
6. He must secure sufficient hours in his law courses to bring his total up to 128 semester hours and must secure a standing of at least 2.0 or its equivalent in his law courses.

Pre-law students can major in the following areas: accounting, anthropology, economics, English, foreign language, history, management, political science, psychology and sociology.

CURRICULA
GENERAL EDUCATION REQUIREMENTS

AREA I. English Composition—the following six semester hours are required:

1. GSE 101—3 semester hours
2. GSE 102—3 semester hours

AREA II. Humanities—twelve semester hours

A. The following six semester hours are required:

1. ENG 209 or 211—3 semester hours*
2. ENG 210 or 212—3 semester hours**

*GSH 126 may meet this requirement in certain specified cases.

**GSH 230 may meet this requirement in certain specified cases.

B. Six semester hours from the following as specified by departments:

1. ART 200—3 semester hours
2. ART 390—3 semester hours
3. ART 391—3 semester hours
4. ART 392—3 semester hours
5. DRA 100—3 semester hours
6. DRA 300—3 semester hours
7. Foreign language—6 semester hours
8. GSH 124—3 semester hours
9. GSH 228—3 semester hours
10. HIS 498—3 semester hours
11. HIS 499—3 semester hours
12. MUS 271—3 semester hours

13. MUS 371—3 semester hours
14. MUS 372—3 semester hours
15. PHI 210—3 semester hours
16. PHI 300—3 semester hours
17. PHI 301—3 semester hours

AREA III. Social Sciences—twelve semester hours

A. The following six semester hours are required:
   1. GSS 246—3 semester hours
   2. GSS 247—3 semester hours

B. Six semester hours from the following as specified by departments:
   1. One course from the following group: ANT 202; ECO 230; GSS 142; GEO 101, 102, or 210; POL 100; SOC 231.
   2. One course from the following group: ANT 110; ECO 231; GSS 144 or 248; GEO 402, 421, or 422; POL 101 or 300; SOC 335.

AREA IV. Mathematics and natural science—twelve semester hours from the following as specified by departments:*

1. Biology: GSC 161 or 162; BIO 111, 131, 141, 301, 305, 317, 403, or 404.
2. Chemistry: GSC 170: CHE 101, 102, 111, or 112.
3. Geology: GLY 108, 109, 210, or 302.
4. Mathematics: MAT 107 or 109, 200. 207, or 211.
5. Physics: GSC 176: PHY 131, 132, 201, 202, or 230.
6. Non-specialized science: SCI 310.

*A student must have 3 semester hours in biological science and 3 semester hours in physical science. At least 6 of the 12 hours must afford the student laboratory experience.

AREA V. Physical Education and Health—the following 5 semester hours are required:

1. GSP 180—1 semester hour
2. GSP 181—1 semester hour
3. GSP 281—3 semester hours

COURSE PREFIXES

ACC—Accounting
AGR—Agriculture
ANT—Anthropology
ART—Art
BED—Business Education
BIO—Biology
CHE—Chemistry
DRA—Drama
ECO—Economics
EDP—Electronic Data Processing
EDU—Education
ENG—English
FIN—Finance
FRE—French
GBU—General Business
GEO—Geography
GER—German
GLY—Geology

GRE—Greek
GSC—Science
GSE—English Composition
GSH—Humanities
GSP—Physical Education and Health
GSS—Social Science
HEA—Health
HEC—Home Economics
HIS—History
IED—Industrial Education
INT—Industrial Technology
JOU—Journalism
KYC—Kentucky Crafts
LAT—Latin
LEN—Law Enforcement
LIB—Library Science
MAT—Mathematics
MGT—Management
MIL—Military Science
MKT—Marketing
MUS—Music
NUR—Nursing
OAD—Office Administration
PHE—Physical Education
PHI—Philosophy
PHY—Physics
POL—Political Science
PSY—Psychology
REC—Recreation
RUS—Russian
SCI—Science
SOC—Sociology
SOW—Social Work
SPA—Spanish
SPE—Speech
TRS—Traffic Safety

CATALOGUE CODE

I, II, and A used in the description of a course indicates the course will be offered the fall semester, spring semester, and by announcement, respectively.

ACADEMIC REGULATIONS

Catalogue Applicable.—A student will be governed by the catalogue in force during the school year in which he enters unless he interrupts his resident status at this institution for more than one calendar year, in which case he comes under the requirements of the catalogue in force at the time of re-admission. A student may elect to comply with the catalogue currently in force. Exceptions to this policy must be approved by the dean of the college in which the student is enrolled and by the Vice President for Academic Affairs.

Classification of Students.—Students shall be classified as indicated below upon the completion of the respective number of hours, provided that the student has removed all entrance conditions:

Freshman—Entrance requirements
Sophomore—30 semester hours
Junior—60 semester hours
Senior—90 semester hours
Graduate—Baccalaureate degree

How Courses Are Numbered.—Courses are numbered according to the following plan:

Courses numbered 100 to 199 are primarily for freshmen.
Courses numbered 200 to 299 are primarily for sophomores.
Courses numbered 300 to 399 are primarily for juniors.
Courses numbered 400 to 499 are primarily for seniors.

Courses numbered 500 to 599 are for senior and graduate students.
Courses numbered 600 to 699 are for graduate students only.

A student may not take a course numbered more than one year below or above his classification level except with special permission from his advisor and the chairman of the department offering the course.

Grading System.—Grades are indicated by letters, to each of which is given a certain value in "grade points". The following is the interpretation placed upon the grading system:

Grade	Meaning	Grade Points Per Semester Hour
A	Excellent	4
B	Good	3
C	Average	2
D	Poor	1
F	Failure	0
I	Incomplete	0
WP	Withdrew passing	....
WF	Withdrew failing	0

A grade of "D" gives credit toward a certificate or a degree, if with such credits the student's standing is 2.0 or more. A grade of "I" shall be assigned if in the opinion of the instructor the student has been unable to complete the course on time because of unavoidable conditions. A grade of "I" must be made complete within one month after the student re-enters the University. A grade of "I" automatically becomes "F" if the course is not completed at the end of a year.

A student's point average is obtained by dividing the total number of points earned by the total number of semester hours attempted. Courses in which the marks are "CR", "W", or "WP" are recorded but are not figured in computing the point average. In order for a student to fulfill the requirements for a certificate or a degree, he must offer a number of "grade points" at least twice as great as the number of semester hours attempted.

The following regulations apply to repeated courses:

1. A transferred course which has been taken more than three times will not be accepted for credit.

2. A student may not enroll in the same course for a fourth time without permission of his academic dean.

3. The grade which is counted in a course that has been repeated is the last grade awarded regardless of whether it is higher or lower.

4. The credits attempted and quality points earned will be counted for each taking of a course, but credits earned will be counted only for the last taking.

For example if a student takes English 211 and makes a "D" and then repeats the course and makes an "A" the quality points, credit, and point standing would be as follows:

	Grade Received	Hours attempted at Eastern	Hours Earned	Quality Points
English 211	D	3	3	3
English 211	A	3	3	12
		6	3	15

The student would have 3 hours credit with a point standing of 2.50.

Minimum Scholastic Standards.—A student will be placed on probation anytime his grade point average falls below a 2.00 cumulative standing on the 4.00 system.

A student whose academic performance is unsatisfactory may be denied the privilege of enrollment. Students whose potential for academic success is good but whose performance is poor will normally be denied re-enrollment for a specified period of time. This denial usually occurs at the end of the academic year. Denial of further enrollment is an administrative act subject to review in individual cases by the University Committee on Admissions. Students whose cumulative grade point averages are below the following levels are subject to denial of enrollment:

Freshmen	1.4
Sophomores, Juniors and Seniors	1.8

A student will not be transferred from Central University College to an upper division college until he has completed 64 hours of credit with an over all cumulative average of 1.8 or better.

Student Load.—The normal semester load for undergraduate students is 16 credit hours. The minimum load to be classed as a full-time student is 12 credit hours. A student who has established superior records may be permitted to enroll for more than 18 hours by the dean of the college in which he is majoring. The maximum load is 21 hours.

A correspondence course taken while in residence is counted as a part of the student's load regardless of the institution with which the student does correspondence work.

Auditing a Course.—A course may be audited, taken without credit, by permission of the instructor and the dean of the college. Registration procedures and fees are the same as for courses taken for credit.

Late Registration.—No one will be permitted to register for regular day classes after the second week of a semester or after the first week of a summer session, unless approved by the Vice President for Academic Affairs and the Dean of Admissions.

Official Schedule Changes.—The University reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, to divide classes if the enrollment is too large for efficient instruction, and to change instructors when necessary. Additional courses will be organized if the demand is sufficient.

Class Schedule Changes.—Necessary changes in courses must be made within ten days after registration for the regular semester or five days in the summer term, and must be approved by the Dean of the College in which the student is majoring. Approval to drop a course without a grade cannot be given after thirty calendar days (15 calendar days for the summer session) following registration, unless justified by conditions beyond the student's control; such as, serious personal illness, obligations relative to military service, or serious financial or family obligation necessitating withdrawal from the University. It is to be understood that any course dropped unofficially will result in a failing grade.

Within one month of the close of a semester no dropping of classes will be permitted. If a student stops attending a class during the last month, the instructor will assign the final grade justified by the student's record.

Withdrawal from the University.—Students who find it necessary to leave the university under any circumstances must visit the Office of the Dean of Students and secure an Official Withdrawal card. This card must be carried by the student to several campus offices, where records must be cleared. Unless the student follows this procedure, the permanent records in the Registrar's Office are incomplete. Therefore, students receive grades of "F" for the semester's work and will not be eligible for re-admission. Students failing to complete a Withdrawal Card within fifteen days will receive an unofficial withdrawal.

Class Attendance.—Faculty members have full responsibility for dealing with student absences from class, within the following limitations:

Any student with more than twenty per cent absences in a course shall be assigned an "F" grade. This policy may be waived for individuals in 100 and 200 level courses by approval of the instructor, department chairman and college dean. In courses above the 200 level, waiver may be effected by the instructor for individuals.

A student who presents the instructor with an adequate and documented reason for an absence normally will be given an opportunity to make up the work missed, if this is feasible. Adequate reasons involve circumstances beyond the student's control, such as personal illness, critical illness or death in the immediate family, or participation in an approved University activity. The responsibility for initiating the request to make up class work missed is vested in the student.

General Requirements for the Baccalaureate Degrees.—The minimum amount of credit required for the bachelor's degree is 128 semester hours 43 of which must be in courses numbered above 299. A minimum grade point average of 2.00 is required on all work attempted at Eastern.

Not more than 32 semester hours of the work required for a degree may be earned by extension and/or correspondence. A student who wishes to apply correspondence credit toward graduation must have all course work completed and the final examination taken prior to the semester or summer term in which he is to graduate. A candidate for a degree must have been in residence a minimum of 36 weeks and must have earned a minimum of 32 hours while in residence. At least 30 of the last 36 hours required for a degree must be earned in residence at Eastern. Transfer students may count toward a degree at Eastern only those credits approved by the dean of the college awarding the degree.

The curriculum which the student expects to follow for the completion of the requirements for the bachelor's degree must be filed in the office of the dean of the college in which the student is majoring not later than the end of the junior year. The curriculum must be approved by the major professor and the dean of the college. Students who change their major shortly before graduation may find that in the process their graduation may be delayed. A curriculum cannot be changed after fifteen days following the semester in which a student makes application for graduation.

Credits more than eight (8) years old may not be counted toward a Baccalaureate Degree without being validated by the dean of the college awarding the degree.

Requirements for a Second Baccalaureate Degree.—To be eligible for a second baccalaureate degree the student must meet all requirements for the second degree sought. Beyond the requirements for the first degree, he must complete a minimum residence requirements of 36 weeks and earn a minimum of 32 credit hours in residence with an average of at least 2.0.

Application for Graduation.—Students completing requirements for graduation in January should apply before the end of the preceding May; June and August graduates should apply by the end of the preceding November.

Commencement.—Commencements are held at the close of the spring semester and at the end of the summer session. Students who are candidates for degrees are required to participate in the commencement exercises unless excused by the President. A student who completes the requirements for a degree during the fall semester will receive the degree at the following spring commencement.

Commencement Honors.—Students are graduated "With High Distinction" who attain a standing of 3.6 or higher for at least three years of residence work.

Students are graduated "With Distinction" who attain a standing of 3.4 up to 3.6 for at least three years of residence work.

A student who completes only two years of work at Eastern may receive the appropriate commencement honors if he attains a standing of 0.2 greater than the above.

Academic Divisions

Central University College . 58
College of Applied Arts and Technology . 99
College of Arts and Sciences . 145
College of Business . 231
College of Education . 259
Graduate School . 293
Continuing Education . 297

Central University College

. . . .

Academic . 58
General Studies Course Offerings . 60
Social Science . 62
Military Science . 62
Preparatory Curricula . 69

CENTRAL UNIVERSITY COLLEGE

Clyde J. Lewis, Dean

This college which began operation in September, 1966, functions at the freshman-sophomore level to supervise and administer academic advising, student academic programs, and the general education curriculum.

The following regulations govern student academic affairs in Central University College:

1. All students entering the institution with less than 60 semester hours will be enrolled in Central University College. Those entering two-year and other less than baccalaureate degree programs sponsored by the other colleges will be enrolled for advising and record keeping only. Their other academic affairs will be administered by the colleges sponsoring the programs.

2. Central University College will be responsible for administering all academic affairs of its students who are preparing for four-year programs. Decisions involving academic probation, change of courses, student load, waiving of courses, granting credit by examination, etc., must be approved by the Dean of Central University College. Policy decisions in such matters, however, must be made in cooperation with the Dean of the College offering the course or courses. The Dean of Central University College will be responsible for administering academic advising during the freshman and sophomore years.

3. Students entering four-year programs and expecting to transfer to upper division colleges will be required to complete their work in Central University College within 22 hours attempted beyond the hours specified in their curricula for the first two years. Exceptions will require special approval from the Dean of Central University College. This approval may be recommended in specific terms by the Admissions Committee for students who are readmitted after having been previously dismissed for academic reasons.

4. Transfer from Central University College to an advanced college will require that students complete 64 semester hours with a 1.8 average, in addition to meeting the general education requirements of Central University College and the special admission requirements of the advanced colleges.

5. Students in Central University College will not be permitted to take more than 12 hours of course work which will meet upper division requirement in an advanced college. Such courses will not be taken before the third semester in Central University College. In such cases, permission must be obtained from the Dean of the Advanced College.

6. Transfer students with academic standings of less than 1.8 or transfer students who do not meet other admission requirements for advanced colleges must enroll in Central University College until such requirements are met. Such students may take course work in the advanced college with permission of the Dean of the college in question. The amount of such work will not exceed 12 upper division hours in the advanced college.
7. Students in advanced colleges may take work at the Central University College level if they have permission of their Dean. However, except in special cases, they will not be permitted to take courses lower than the 200 level.

The College's Academic Advising Office provides services for most students enrolled in the first two years. Advisors are drawn largely from the academic faculties. They help students plan programs which permit achievement approaching a maximum of potential. The supervision provided here is meant to avoid the waste of time and effort that usually results from drifting through the first two years of college.

Central University College also provides an integrated curriculum which covers broad areas of knowledge, encompassing all the important fields needed by educated persons. These fields include experiences and understandings which are valuable to the individual and which will help the individual make his contribution to society. The program has been carefully designed to synthesize ideas so that emphasis is placed upon essential concepts rather than upon mere fact gathering. The core of the program includes 23 semester hours in English Composition, Natural Sciences, Social Science, and Physical Education and Health. In addition, 24 more semester hours may be taken in general education course work required by the institution for graduation. This is a flexible program containing general education courses arranged in logical sequences along with adequate specialized and professional course work.

In addition to the general education courses, students in Central University College also take preparatory courses for specialized training in their major and minor fields. The course patterns meeting these requirements in the advanced colleges are shown in subsequent pages.

Central University College has only two departments: the Military Science Department and the Social Science Department. Other courses, some in General Studies listed below, and others listed with departments of other colleges, are offered by the appropriate other departments.

GENERAL STUDIES COURSE OFFERINGS

ENGLISH COMPOSITION (GSE)

Bert C. Bach, Chairman

GSE 101. (Formerly English 101) English Composition I. **Three hours.** I, II.
Review of the mechanics of expression; word study and use of dictionary; primary emphasis on composition; some practice in more effective oral communication, reading, listening, and thinking.

GSE 102. (Formerly English 102) English Composition II. **Three hours.** I, II.
Prerequisite: General Studies 101 (or equivalent).
Continued practice in composition; library paper; emphasis on reading and analysis, including the explication of literature.

HUMANITIES (GSH)

Frank Davy, Chairman

GSH 124. Humanities I. **Three hours.** A.
The nature and significance of human subjective experience; the role of major disciplines in enriching and communicating that experience; exploratory investigations of selected familiar expressions in art, drama, literature, music, and philosophy; experience in self-expression.

GSH 126. Humanities II. **Three hours.** A.
Prerequisite: GSH 124.
An examination of humanistic expression selected from classic works in all cultures through the Renaissance. Experience in self-expression.

GSH 228. Humanities III. **Three hours.** A.
Prerequisite: GSH 126.
A continuation of GSH 126 to the end of the 19th century.

GSH 230. Humanities IV. **Three hours.** A.
Prerequisite: GSH 228.
The problem of "meaning" for contemporary man; the search for "meaning" in contemporary art, drama, music, literature, and philosophy; continuing experience in student self-expression.

PHYSICAL EDUCATION (GSP)

John Deck, Chairman

GSP 180. (Formerly Physical Education 115) Basic Physical Education. **One hour.** I.

Activities for Men:

Bowling
Dance
Physical Maintenance
Tennis
Volleyball
Golf
Soccer
Swimming
Tumbling Apparatus
Wrestling
Badminton
Track and Field
Handball
Developmental Physical Education
Adapted Physical Education

Activities for Women:

Bowling
Dance
Physical Maintenance
Tennis
Volleyball
Golf
Soccer
Swimming
Tumbling Apparatus
Archery
Badminton
Track and Field
Field Hockey
Basketball
Developmental Physical Education
Adapted Physical Education

GSP 181. (Formerly Physical Education 116) Basic Physical Education. **One hour.** II.

A continuation of GSP 180.

HEALTH (GSP)

Thomas D. Myers, Chairman

GSP 281. (Formerly Health 201) Personal and Community Health. **Three hours.** I, II.

An interpretation of scientific findings in health concepts, nutrition, emotional health, family health, communicable diseases, addictions, physical fitness, environmental health and community health agencies. Emphasis placed on stressing intelligent self-direction of health behavior and acceptance for responsibilities in personal and community health.

BIOLOGICAL SCIENCE (GSC)

GSC 161. (Formerly Science 112) Plant Science. **Three hours.** I, II.

(Not open to students who have completed college laboratory courses in biology or botany.)

The principles of plant biology, with emphasis of the angiosperms; basic concepts of reproduction in plants and inheritance. Two lecture hours and two laboratory hours.

GSC 162. (Formerly Science 111) Animal Science. **Three hours.** I, II.

(Not open to students who have completed college laboratory courses in biology or zoology.)

The principles of animal biology, with emphasis on the vertebrates and the basic concepts of evolution. Two lecture hours and two laboratory hours.

PHYSICAL SCIENCE (GSC)

GSC 170. (Formerly Science 110) Physical Science (Chemistry.) **Three hours.** I, II.

(Not open to students who have completed college laboratory courses in chemistry.)

The purpose of this course is to present some of the basic principles of chemistry and to show how chemistry affects man in both the economic and cultural areas of his life and activities. Two lecture hours and two laboratory hours.

GSC 176. (Formerly Science 109) Physical Science (Physics.) **Three hours.** I, II.

(Not open to students who have completed college laboratory courses in physics.)

A course designed to give the students whose primary interests are in other fields an understanding of some basic scientific problems and their importance in the scientific age. Topics on force, energy, heat, sound, light, electricity, magnetism, electrons, and nuclear phenomena give the student a broad view of the universe. Two lecture hours and two laboratory hours.

SOCIAL SCIENCE (GSS)

A. J. Downes, Chairman; Bennett, Biesinger, Boyd, Cahalan, Caldwell, A. Carlson, Clay, Curtis, DeCarbo, Hilton, Jirran, Keeton, Krebs, Lawson, R. Lewis, R. Miller, Mylum, Orchard, Reagor, Shott, M. L. Taylor, Tunnell, Wolf.

GSS 142. Culture and Society: An Introduction to the Social Sciences. **Three hours.** I, II.

An introduction to certain basic concepts of the social sciences; definitions and vocabulary; the scientific approach to an understanding of human society and culture; major factors of cultural dynamics: geographical, psychological, technological, diffusional, traditional; definition of the major primitive cultures and the major civilizations.

GSS 144. Contemporary Society. **Three hours.** I, II.

An introduction to basic economic and political concepts of modern society; 20th century economic and political ideologies and institutions; problems of economic systems and governments in meeting the challenges of the industrial world and modern technology; alternative economic and political systems; international relations.

GSS 246. (Formerly History 246) History of Western Civilization. **Three hours.** I, II.

The emergence of pre-industrial culture; patterns of pre-industrial culture in the Near East, the Mediterranean Basin, and in Europe before the nineteenth century.

GSS 247. (Formerly History 247) History of Western Civilization. **Three hours.** I, II.

The developing culture pattern of the industrial era of the 19th and 20th centuries, with progressively more attention to its worldwide influences and with progressively more illustrative material drawn from the United States.

GSS 248. The Human Problem in the 20th Century. **Three hours.** II.

Implications of 20th Century technology; economic maladjustments; population growth and the depletion of resources; roots of contemporary collectivism; threats to personal liberty; conformity and mass psychology; personal and social disorganization; the malfunctioning state system; implications of the military complex; war as the ultimate problem.

MILITARY SCIENCE (MIL)

COL. E. N. Smith, Chairman; CPT Bell, MAJ Brewster. CPT Chewing, MAJ Collier, MAJ Dunne, CPT Farris, CPT Goff, LTC Golden, CPT Hodge, CPT Meyer, CPT Miller, MAJ Parker, MAJ Rink, MAJ Strother, MAJ Wicksell, MAJ Wright.

Military Science cannot be considered as a major or minor. However, the Board of Regents rules require that all male students complete the Basic Course as outlined below.

The primary mission of the Reserve Officers' Training Corps (ROTC) is to produce junior officers for all components of the United States Army. A vital secondary mission is to impart citizenship training, develop leadership potential, and stimulate and motivate the student for future useful service in behalf of the Nation, in whatever profession he chooses. The basic aim is to develop in each student habits of cheerful and appropriate response to constituted authority, loyalty, patriotism, self-discipline, personal bearing and precision.

At the request of this institution, the United States Army established a Reserve Officers' Training Corps (ROTC) unit at Eastern Kentucky University in 1936. Initially, the ROTC program offered a commission only in Artillery, without regard to the student's academic background. In 1955, with mutual agreement between the college and the Department of the Army, the program was changed to a General Military Science curriculum which provides instruction in leadership and military fundamentals common to all branches of the Army. Upon graduation a student may now be commissioned in one of fourteen branches consonant with his academic major, his preference, and the requirements of the military service. Those branches are: Armor, Artillery, Infantry, Signal Corps, Corps of Engineers, Chemical Corps, Adjutant General's Corps, Finance Corps, Military Police Corps, Ordnance Corps, Quartermaster Corps, Medical Service Corps, Transportation Corps and Military Intelligence.

The Army ROTC program at Eastern Kentucky University is divided into two courses of two years each. These are the BASIC Course normally taken in the freshman and sophomore years, and the ADVANCED Course taken in the junior and senior years. Completion of the Basic Course is normally a prerequisite for the Advanced Course. Between the junior and senior years, the student attends a six weeks Summer Camp at an Army Post, where he is given an opportunity to put into practice the military theory learned at Eastern Kentucky University, and is evaluated as a potential officer. Successful completion of the Basic and Advanced Courses, the Summer Camp, and award of a Bachelor's Degree are required to be eligible for a commission.

BASIC COURSE—(MIL I & MIL II)—The ROTC Basic Course of two years duration is required by the University for all able-bodied male students. This course is a university requirement for graduation. Once a student is enrolled, he must continue in the Basic Course each semester he is enrolled in the University until the Basic Course has been completed satisfactorily. Students may be excused from this requirement in rare cases upon recommendation of the Professor of Military Science after a personal interview, and approval by the President of Eastern Kentucky University. Students may be excused from formal enrollment in the Basic Course in the following instances:

(a) If not a citizen of the United States. (Exceptions by Professor of Military Science).

(b) If under 14 years of age; or if cannot qualify for appointment as Second Lieutenant prior to reaching 28 years of age.

(c) If medically unfit to perform General Military Service.

A student who has prior military service or has completed ROTC training in high school or in another college will, after a conference with the Professor of Military Science, be enrolled in the course for which previous training qualifies him, or be excused from enrollment under specified conditions.

Students transferring to this university after completing part of the Basic Course elsewhere must continue the course at this university until successful completion. Students transferring to this university who have not been enrolled in the Basic Course elsewhere will be required to enroll in and complete the Basic Course if their classification upon enrollment is less than that of a second-semester sophomore (less than 45 credit hours accepted by this University). Students transferring with a classification of second-semester sophomore or junior, without previous military training, may qualify for the ROTC Advanced Course by attendance at a Basic Training Camp during the summer between their sophomore and junior years. In any event, male transfer students must consult with the Professor of Military Science for determination of their enrollment status.

ADVANCED COURSE—(MIL III & MIL IV)—The Advanced Course is offered to those students who have successfully completed the Basic Course, and who have been recommended by the Professor of Military Science and approved by the President of the University. Such recommendations will be limited to those students who have shown special interest and ability during the Basic Course, who have stated a desire to continue in the Advanced Course to qualify for a commission in the Regular Army or the Army Reserve, who are physically qualified, and who achieve satisfactory scores on the prescribed standardized qualification tests. A student selected will receive subsistence pay of fifty dollars ($50.00) per month, or approximately $1,000.00 for the two year course. During the summer following the junior year, students in the Advanced Course will attend a Summer Camp of six weeks duration. While attending Summer Camp, members of the Advanced Course are paid at the rate of one-half the base pay of a Second Lieutenant and are furnished subsistence, housing, uniforms and medical care, and are paid a travel allowance to and from Camp. Enrollment in the Advanced Course will be limited to students who can qualify for appointment as Second Lieutenants prior to reaching 28 years of age (27 for Regular Army Commission) (exceptions for prior service men). Those who enroll must sign a contract with the United States Government to complete the Advanced Course and attend Summer Camp. Upon successful completion of the Advanced Course and recommendation by the Professor of Military Science and the President of the University, students may be commissioned as Second Lieutenants in the Army Reserve at the time their degree is conferred. Distinguished Military Students, so designated in their senior year by the Professor of Military Science and the University President for outstanding achievement during the preceding three-year period, have an opportunity to apply for Regular Army Commissions. This opportunity is extended only to those students who demonstrate high leadership potential, and who stand academically in the upper one-third of the Advanced Course.

Selected and qualified Seniors may take flight training at government expense to receive their private pilot's license. No University credits are offered for this extra training.

CREDIT—The Basic Course is presented in two classroom hours and one Leadership Laboratory hour per week for both Military Science I (freshmen) and Military Science II (sophomores), for which two hours credit are awarded for each semester.

The Advanced Course is presented in four classroom hours and two Leadership Laboratory hours per week during one semester. During the other semester, the Advanced Course is presented in one classroom hour and two Leadership Laboratory hours per week. However, Advanced cadets must take a three hour elective substitution course during one semester of each year. (See Advanced Course curriculum for Military Science III and IV). The student receives four hours credit one semester and one hour credit the other semester for a total of five hours credit each year in the Advanced Course. He receives constructive credit towards meeting Advanced Course requirements prescribed by law for the three hour elective substitution course both years. The elective substitution course may be taken during either semester each year.

Since the Basic Course in Military Science is a University requirement for a degree, male students should confer with their faculty advisor or the Dean of their College to determine the most advantageous use of ROTC credits.

MEDICAL EXAMINATIONS—Section 44 of the National Defense Act requires that ROTC students must be "physically fit to perform military duty, or will be so upon arrival at military age." In order that this law may be carried out, the physical examination submitted for admission to the University (see STUDENT HEALTH SERVICES under INFORMATION FOR THE STUDENT, PART TWO, this Catalogue for details) will be used as the basis for physical classification for ROTC.

Examinations for students selected for enrollment in the Advanced Course will be arranged for by the Professor of Military Science at no cost to the students.

ROTC CO-CURRICULAR ACTIVITIES:

a. Company R, 1st Regiment of the National Society of Pershing Rifles — Membership in the Pershing Rifles Company is open to Basic and Advanced Course students who exhibit outstanding leadership and military ability.

b. The Lieutenant John "Nick" Combs Memorial Company, Association of the United States Army, Eastern Kentucky University Chapter—Membership in this organization is open to all ROTC students. An outstanding co-curricular social activity presented during the spring semester each year by this organization is the Military Ball. A portion of the fee charged each cadet enrolled in ROTC entitles him to all privileges of one of the Military dances.

c. The Eastern Kentucky University Reserve Officers' Training Corps Band, a charter member of the National Reserve Officers' Training Corps Band Association — Membership in this organization is open to all ROTC cadets who possess the required abilities. This unit provides music for all ROTC ceremonies as well as for selected University functions.

d. Rifle Team — Another co-curricular activity is the rifle team, which is a recognized varsity athletic team at Eastern Kentucky University.

e. Counterguerrilla Raider Training Unit — This program is a student activity, conducted for the purpose of developing among its members a sense of personal responsibility, military discipline, physical fitness, and the spirit of unselfishness and devotion to duty so essential to a successful military career.

f. Scabbard and Blade — The Scabbard and Blade Company, an honorary society and a member of the National Society of Scabbard and Blade, is open for membership only to selected senior cadet officers who meet high standards of character, leadership, academic achievement, and demonstrated proficiency in Military Science. Nominations for membership are made by the Scabbard and Blade members, subject to approval by the Professor of Military Science and the President of the University. Membership is considered a high University honor and a cherished reward for outstanding studentship over a three year period.

g. Coed Sponsors — A coed sponsor is selected for each headquarters and company of the Brigade and each military co-curricular unit. These sponsors wear their own distinctive uniforms and hold the honorary rank of their corresponding unit commander. They attend formations and ceremonies with the brigade and are extended the same courtesies as the cadet officers. Selection of sponsors is accomplished by MIL III and MIL IV students during September of each year. The girls selected as sponsors will be the candidates for the honor of Military Ball Queen. The sponsor chosen as Queen of the Military Ball will be given the rank of Honorary Cadet Colonel, and will serve as the Brigade Sponsor for the next school year.

h. ROTC Chorale Group — Membership in this organization is open to all ROTC Cadets who possess the required abilities. The group provides choral renditions at selected ROTC or University functions.

i. MP Company — Membership in this organization is reserved primarily for cadets majoring in Law Enforcement and then for selected additional cadets. This organization is co-sponsored by the Law Enforcement Department of the College of Applied Arts and Technology. Extra training outside class hours is given to members in Military Police procedures and operations. Members serve on-campus functions by controlling crowds and traffic.

MILITARY SCIENCE (MIL)

BASIC COURSE (MIL I & MIL II)

MIL. 101. Introduction to Military Science. Two hours.
Organization of the Army and ROTC; individual weapons and marksmanship; *basic military subjects; leadership laboratory.

MIL. 102. Basic Military Training. Two hours.
U. S. Army and national security; *Basic military subjects; leadership laboratory.

MIL. 201. Second Year Basic Military Training. **Two hours. (Fall Semester only.)**

Map and aerial photograph leading; introduction to basic tactics and techniques; leadership laboratory.

MIL. 202. Second Year Basic Military Training. **Two hours. (Spring Semester only).**

American military history; leadership laboratory.

ADVANCED COURSE (MIL III & MIL IV)

MIL. 302. First Year Advanced Military Training. **One hour. (Fall Semester only).**

Branches of the Army; **precamp orientation; leadership laboratory; ***academic elective substitution course.

MIL. 301. First Year Advanced Military Training. **Four hours. (Spring Semester only).**

Leadership; military teaching principles; small unit tactics and communications; leadership laboratory.

MIL. 401. Second Year Advanced Military Training. **Four hours. (Fall Semester only).**

Operations; logistics; army administration; military law; leadership laboratory.

MIL. 402. Second Year Advanced Military Training. **One hour. (Spring Semester only).**

The role of the United States in world affairs; service orientation; leadership laboratory; ****academic elective substitution course.

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*To include military first aid; care of mass casualties; drill and ceremonies.

**This 5-hour sub-course may be introduced as substitute instruction in leadership laboratory and/or prescribed field training exercises (FTX'S).

***Academic elective substitution courses must be chosen during the junior and senior years; be approved in advance by the Professor of Military Science and must be three hour upper or graduate division courses chosen from the following academic areas:

1. English
2. Language
3. Speech (any three hour course)
4. Chemistry, Physics, Biology, Science, Geography and Mathematics
5. Psychology
6. Political Science
7. History

In the event that a particular subject is required in the student's normal academic curriculum during the freshman and sophomore years, electives must be selected either from another general area or from an upper division subject in the same area. However, if the subject selected was not required in the student's academic curriculum during the freshman and sophomore years, complete freedom of selection from within the seven above stated academic areas is permissible. The Professor of Military Science will evaluate and approve the elective substitutions selected. Consideration will be given to the value of the subject in furthering the professional qualifications of the student as a prospective commissioned officer in the United States Army.

****Academic elective substitution courses are from the same areas and courses as for Military Science III.

ACADEMIC PROGRAMS

THE INITIAL SEMESTER

Central University College curricula prepare students for admission to major fields in upper division colleges of the University*. However, many preparatory curricula in Central University College do not require students to select a major until the opening of their second semester**. During the initial semester, they take a general program which includes 3-8 semester hours of electives. These elective courses should be selected carefully, in discussion with advisors and with a view toward wisely choosing a major field. The first semester program is shown below.

Course	Hours
GSE 101	3
GSP 180	1
MIL (Men) or elective (Women)	2
General education options***	6–7
General elective	3–5
	15–18

*Two year pre-professional and terminal programs are outlined in the sections of the *Catalogue* which show the curricula of sponsoring departments in the advanced colleges.

**These majors, as indicated in the preparatory curricula listed on succeeding pages, are Accounting, Anthropology, Business Education, Drama (see Drama and Speech), Economics, Elementary Education, English, Finance, Management, and Marketing (see Business Administration), Foreign Language, General Business (see Business Administration), Geography, History, Industrial Education, Law Enforcement, Library Science, Manual Arts Therapy, Mathematics, Philosophy, Physical Education, Political Science, Psychology, Recreation, School Health (see Health), Sociology, Speech, and Vocational-Industrial and Technical Teacher Education (see Industrial Education). Exceptions are Agriculture, Art, Biology, Chemistry, Dietetics and Food Management (see Home Economics), Earth Science (see Geology), Geology, Home Economics, Medical Technology, Music, Physics, Pre-Forestry (see Biology), Pre-Medical Science, Pre-Veterinary (see Biology), and Speech Pathology and Audiology (see Drama and Speech). ffl

***Two courses from the following four groups, but only one course from one group.

1. Science and Mathematics: GSC 161, 162, 170, or 176; BIO 111, 131, or 141; CHE 101, 102, 111, or 112; GLY 108, 109, or 210; PHY 131, 132, 201, or 202; MAT 107, 109, 207, or 211.
2. Humanities: ART 200; DRA 100; Foreign Language; GSH 124; PHI 210.
3. Social Science: ANT 110 or 202; ECO 230; GSS 142; GEO 101, 102, or 210; POL 100; SOC 231.
4. Physical Education and Health: GSP 281.

SPECIFIED CURRICULA

ACCOUNTING

Preparatory curriculum for a major in Accounting, College of Business

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
General education mathematics or science*	3
GSS 142	3
Suggested general elective:	
ACC 124	3
	15

Second Semester	Hours
ACC 124 or 125	3
General education mathematics or science*	3
GSE 102	3
GSP 181	1
GSS 142 or 246	3
MIL 102 (Men) or Elective (Women)	2
	15

Second Year

ACC 125 or 126	3
ENG 209 or 211	3
ECO 230	3
GSP 281	3
GSS 246 or 247	3
MIL 201 (Men) or Elective (Women)	2
	17

ACC 126 or 225	3
ECO 231	3
ENG 210 or 212	3
General education mathematics or science*	3
GSS 247 or 248	3
MIL 202 (Men) or Elective (Women)	2
	17

*Six hours of laboratory science, three hours in biology and three hours in physical science must be taken while the student is in Central University College.

AGRICULTURE

Preparatory curriculum for a major in Agriculture (with a minor in Business), College of Applied Arts and Technology

First Year

First Semester	Hours
AGR 263	1
GSE 101	3
GSP 180	1
MIL 101	2
SPE 100	3
Agriculture elective*	8
	18

Second Semester	Hours
ACC 124	3
General education mathematics or science**	3
GSE 102	3
GSP 181	1
MIL 102	2
Agriculture elective***	4-6
	16-18

Second Year

ACC 125	3
General education mathematics or science**	3
GSS 246	3
MIL 201	2
Agriculture elective***	4-5
	15-16

General education mathematics or science**	3
GSP 281	3
GSS 247	3
MIL 202	2
Agriculture elective***	4-5
	15-16

*Agriculture courses with approval of advisor: AGR 125, 130, 131.

**General education science or mathematics options which are explained on page 47. with approval of advisor. Note that six hours of laboratory science must be taken in Central University College.

***Agriculture courses with approval of advisor: AGR 213, 215, 221, 244, 270 series.

ANTHROPOLOGY

Preparatory curriculum for a major in Anthropology (non-teaching),
College of Arts and Sciences

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men)	
or	
Elective (Women)	2
Suggested general education options:	
ANT 110	3
GSC 162 or BIO 141*	3-4
Suggested general elective:	
Foreign language	3
	15-16

Second Semester	Hours
ANT 110 or 201	3
Foreign language	3
GSE 102	3
GSC 162 or BIO 141; GLY 108 or 109*	3–4
GSP 181	1
MIL 102 (Men)	
or	
Elective (Women)	2
	15-16

Second Year

ANT 201 or 202	3
ENG 211	3
Foreign language or GSP 281**	3
GLY 108 or 109; or MAT 107*	3
GSS 246	3
MIL 201 (Men)	
or	
Elective (Women)	2
	17

ANT 202 or SOC 231	3
ENG 212	3
GSP 281 or elective**	3
GSS 247	3
MAT 107 or 207	3
MIL 202 (Men)	
or	
Elective (Women)	2
	17

*A student must choose one biological and one physical science from these options.

**GSP 281 must be taken while the student is in Central University College.

ART

Preparatory curriculum for an area in Art (teaching), major in Art
(teaching), or major in Art (non-teaching),
College of Arts and Sciences

First Year

First Semester	Hours
ART 100	3
ART 102	3
General education social science elective (Area III B 1)	3
GSE 101	3
GSP 180	1
MIL 101 (Men)	
or	
Elective (Women)	2
	15

Second Semester	Hours
ART 101	3
ART 103	3
General education laboratory science	3
GSE 102	3
GSP 181	1
GSS 246 or elective*	3
MIL 102 (Men)	
or	
Elective (Women)	2
	18

Second Year

EDU 202, PSY 211*, GSP 281**, or elective	3
General education laboratory science	3
GSS 246 or 247	3
MIL 201 (Men)	
or	
Elective (Women)	2
Required art*** and/or elective	6
	17

EDU 202, PSY 211*, or GSS 247	3
ENG 210 or 212	3
GSP 281** or elective	3
MIL 202 (Men)	
or	
Elective (Women)	2
Required art*** and/or elective	6
	17

*Students who expect to qualify for teaching certificates within four years must complete GSS 246 in the second semester of the freshman year and complete both EDU 202 and PSY 211 in the sophomore year.

**GSP 281 must be taken while the student is in Central University College.

***To be selected from ART 203, 204, 227, and 229, with approval of advisor.

BIOLOGY

Preparatory curriculum for a major in Biology (teaching or non-teaching), College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
BIO 131 or 141	4	BIO 111, 131, or 141	4
General education social science elective (Area III B 1)	3	CHE 101, 111, 102, or 112	4-5
GSE 101	3	General education social science elective (Area III B 2) or GSS 246	3
GSP 180	1	GSE 102	3
MAT 107 or 109, CHE 101 or 111	3-5	GSP 181	1
MIL 101 (Men) or Elective (Women)	2	MIL 102 (Men) or Elective (Women)	2
	16-18		17-18

Second Year

BIO 111, 131, or 141	4	BIO 221, 242, 315, or 335	3-5
CHE 102, 112, MAT 107, 109, or GSP 281*	3-5	EDU 202, PSY 211**, general education humanities, or CHE 213	3
EDU 202, PSY 211**, general education humanities, or CHE 213	3	GSS 247 or general education social science elective (Area III B 2)	3
GSS 246 or 247	3	MAT 107, 109, or GSP 281*	3-5
MIL 201 (Men) or Elective (Women)	2	MIL 202 (Men) or Elective (Women)	2
	15-17		14-18

*GSP 281 must be taken while the student is in Central University College.

**Both EDU 202 and PSY 211 must be taken in Central University College by students seeking teaching certificates.

Preparatory curriculum for a major in Pre-Forestry, Department of Biology, College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
BIO 131	4	BIO 111	4
General education social science elective (Area III B 1)	3	GSE 102	3
GSE 101	3	GSP 181	1
GSP 180	1	GSS 246 or social science elective (Area III B 2)	3
MAT 109	5	MAT 111	4
MIL 101	2	MIL 102	2
	18		17

Second Year

CHE 111	4	CHE 112	5
ENG 209 or 211	3	ENG 210 or 212	3
GSS 246 or 247	3	GSP 281* or MAT 112	3-4
GSP 281* or MAT 112	3-4	GSS 247 or social science elective (Area III B 2)	3
MIL 201	2	MIL 202	2
	15-16		16-17

*GSP 281 must be taken while the student is in Central University College.

Preparatory curriculum for a major in Pre-Veterinary Medicine, Department of Biology, College of Arts and Sciences

First Year

First Semester	Hours
BIO 141	4
CHE 111 or MAT 109	4-5
Foreign language	3
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
	17-18

Second Semester	Hours
BIO 111	4
CHE 112 or GSP 281	3-5
Foreign language	3
GSE 102	3
GSP 181	1
MIL 102 (Men) or Elective (Women)	2
	16-18

Second Year

AGR 125	4
CHE 231; or BIO 221, 242, or 315	3-5
GSS 246	3
MAT 109 or CHE 111	4-5
MIL 201 (Men) or Elective (Women)	2
	16-19

AGR 126	3
BIO 221, 242. or 315	3-5
GSP 281 or CHE 112	3-5
GSS 247	3
MIL 202 (Men) or Elective (Women)	2
	14-18

Preparatory curriculum for a major in Wildlife Management, Department of Biology, College of Arts and Sciences

First Year

First Semester	Hours
BIO 131 or 141	4
General education humanities	3
General education social science elective (Area III B 1)	3
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
	16

Second Semester	Hours
BIO 131 or 141	4
General education humanities	3
General education social science elective (Area III B 2) or GSS 246	3
GSE 102	3
GSP 181	1
MIL 102 (Men) or Elective (Women)	2
	16

Second Year

BIO 111	4
BIO 316	4
CHE 111	4
GSS 246 or 247	3
MIL 201 (Men) or Elective (Women)	2
	17

BIO 381	3
CHE 112	5
GSP 281	3
GSS 247 or general education social science elective (Area III B 2)	3
MIL 202 (Men) or Elective (Women)	2
	16

BUSINESS ADMINISTRATION

Preparatory curriculum for a major in General Business, College of Business

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
General education science or mathematics* or GSH 124	3
GSS 142	3
Suggested general elective:	
ACC 124	3
	15

Second Semester	Hours
ACC 124 or 125	3
General education science or mathematics*; GSH 124 or 126	3
GSE 102	3
GSP 181	1
GSS 142 or 246	3
MIL 102 (Men) or Elective (Women)	2
	15

Second Year

First Semester	Hours
ACC 125 or 126	3
ECO 230 or GSP 281**	3
ENG 209 or 211; GSH 126 or 228	3
General education science or mathematics* or non-business elective	3-5
GSS 246 or 247	3
MIL 201 (Men) or Elective (Women)	2
	17-19

Second Semester	Hours
ACC 126 or GSP 281**	3
ECO 230 or 231	3
ENG 210 or 212; GSH 228 or 230	3
General education science or mathematics*	3
GSS 247 or 248	3
MIL 202 (Men) or Elective (Women)	2
	17

Preparatory curriculum for a major in Finance, Management, and Marketing, College of Business

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
General education science or mathematics* or GSH 124	3
GSS 142	3
Suggested general elective:	
ACC 124 or OAD 101	3
	15

Second Semester	Hours
ACC 124 or 125	3
General education science or mathematics*; GSH 124 or 126	3
GSE 102	3
GSP 181	1
GSS 142 or 246	3
MIL 102 (Men) or Elective (Women)	2
	15

Second Year

First Semester	Hours
ACC 125 or 126	3
ECO 230 or GSP 281**	3
ENG 209 or 211; GSH 126 or 228	3
General education science or mathematics*, or non-business elective	3
GSS 246 or 247	3
MIL 201 (Men) or Elective (Women)	2
	17

Second Semester	Hours
ACC 126 or GSP 281**	3
ECO 230 or 231	3
ENG 210 or 212; GSH 228 or 230	3
General education science or mathematics*	3
GSS 247 or 248	3
MIL 202 (Men) or Elective (Women)	2
	17

*Science and mathematics options are explained on page 49, which lists general education requirements. Six hours of laboratory science must be taken while the student is in Central University College.

**GSP 281 must be taken while the student is in Central University College.

BUSINESS EDUCATION AND OFFICE ADMINISTRATION

Preparatory curriculum for a major in Business Teacher Education, College of Business

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
GSC 170, 176, or GLY 108	3
GSS 142	3
Suggested general electives:	
ACC 124	3
OAD 151 or 152	2
	17

Second Semester	Hours
ACC 124 or 125	3
GSC 161, 162, 170, 176, or GLY 108	3
GSE 102	3
GSP 181	1
GSS 142 or 246	3
MIL 102 (Men) or Elective (Women)	2
OAD 151, 152, or 253	2
	17

Second Year

ACC 125 or 126	3
ECO 230 or general education science	3
EDU 202 or PSY 211	3
GSS 246 or 247	3
MIL 201 (Men) or Elective (Women)	2
OAD 152, 253, 115, or 116	2-3
	16-17

ACC 126 or ECO 231	3
EDU 202 or PSY 211	3
GSP 281	3
GSS 247 or 248	3
MIL 202 (Men) or Elective (Women)	2
OAD 115, 116, or 202	3
	17

Preparatory curriculum for a major in Office Administration, College of Business

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
Suggested general education options:	
General education science or mathematics* or GSH 124	3
GSS 142	3
Suggested general electives:	
ACC 124 or 125	3
OAD 151 or 152	2
	15

Second Semester	Hours
ACC 124, 125, or 126	3
GSE 102	3
GSH 124, 126, or GSS 246	3
GSP 181	1
OAD 115 or 116	3
OAD 151, 152, or 253	2
	15

Second Year

ACC 125, 126, or GSP 281**	3
ENG 209 or 211; GSH 126 or 228	3
General education science or mathematics*	3
GSS 246 or 247	3
OAD 116 or 202	3
OAD 152, 253, or ECO 230	2-3
	17-18

ACC 126, ECO 230 or 231	3
ENG 210 or 212; GSH 228 or 230; or OAD 253	2-3
General education science or mathematics*	3
GSP 281** or elective	2-3
GSS 247 or 248	3
OAD 202 or elective	3
	16-18

*Science and mathematics options are explained on page 49, which lists general education requirements. Six hours of laboratory science must be taken while the student is in Central University College.

**GSP 281 must be taken while the student is in Central University College.

CHEMISTRY

Preparatory curriculum for a major in Chemistry
(teaching or non-teaching), College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
CHE 111	4	CHE 112	5
GER 101 or general education humanities*	3	GER 102 or general education humanities*	3
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
MAT 109	5	MAT 111	4
MIL 101 (Men) or Elective (Women)	2	MIL 102 (Men) or Elective (Women)	2
	18		18

Second Year

CHE 213	4	GER 202, EDU 202, or PSY 211*	3
GER 201, EDU 202, or PSY 211*	3	GSP 281	3
MAT 112	3	MAT 213	4
MIL 201 (Men) or Elective (Women)	2	MIL 202 (Men) or Elective (Women)	2
PHY 201	5	PHY 202	5
	17		17

*Four semesters of German are required for the non-teaching major; EDU 202 and PSY 211 are required for the teaching major.

DIETETICS

See HOME ECONOMICS

DRAMA AND SPEECH

Preparatory curriculum for majors in Speech, Speech and Drama, and Drama (teaching or non-teaching), College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	General education social science elective (Area III B 2)	3
GSP 180	1	GSC 161, 162, 170, 176, or GLY 108	3
MIL 101 (Men) or Elective (Women)	2-3	GSE 102	3
Suggested general education options:		GSP 181	1
General education social science elective (Area III B 1)	3	MIL 102 (Men) or Elective (Women)	2-3
GSC 161, 162, 170, 176, or GLY 108	3	SPE 100, 290, or DRA 100	3
Suggested general elective:			
SPE 100, 290, or DRA 100	3		
	15-16		15-16

Second Year

EDU 202, or speech or drama elective	3	ART 200 or MUS 271	3
ENG 209 or 211	3	EDU 202, or speech or drama elective	3
GSP 281	3	ENG 210 or 212	3
GSS 246	3	GSS 247	3
MIL 201 (Men) or Elective (Women)	2-3	MIL 202 (Men) or Elective (Women)	2-3
SPE 240	3	PSY 211	3
	17-18		17-18

Preparatory curriculum for a major in Speech Pathology and Audiology, Department of Drama and Speech, College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
ART 200 or MUS 271	3	DRA 100	3
General education social science elective (Area III B 1)	3	General education social science elective (Area III B 2)	3
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
MIL 101 (Men) or Elective (Women)	2	GSP 281	3
PSY 211	3	MAT 107	3
SPE 100	3	MIL 102 (Men) or Elective (Women)	2
	18		18

Second Year

BIO 301	3	ENG 210 or 212	3
BIO 377	1	GSC 170, 176, or GLY 108	3
ENG 209 or 211	3	GSS 247	3
GSS 246	3	MIL 202 (Men) or Elective (Women)	2
MIL 201 (Men) or Elective (Women)	2	SPE 275	3
PSY 312	3	SPE 450	3
SPE 360	3		
	18		17

EARTH SCIENCE

See GEOLOGY

ECONOMICS

Preparatory curriculum for a major in Economics (non-teaching), College of Business

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3 ✓	ACC 124 or 125	3
GSP 180	1 ✓	General education science or mathematics or GSH 126	3
MIL 101 (Men) or Elective (Women)	2 ✓	GSE 102	3
Suggested general education options:		GSP 181	1
General education science or mathematics or GSH 124	3	GSP 281	3
GSS 142	3	GSS 142 or 246	3
Suggested general elective:		MIL 102 (Men) or Elective (Women)	2
ACC 124 or OAD 101	3 luo		
	15		18

Second Year

ACC 125 or 126	3	ACC 126, GBU 200, or non-business elective	3
ECO 230	3	ECO 231	3
ENG 209, 211, or GSH 228	3	ENG 210, 212, or GSH 230	3
General education science or mathematics	3	General education science or mathematics	3
GSS 246 or 247	3	GSS 247 or 248	3
MIL 201 (Men) or Elective (Women)	2	MIL 202 (Men) or Elective (Women)	2
	17		17

ELEMENTARY EDUCATION

Preparatory curriculum for a major in Elementary Education, College of Education

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	GEO 101, 102, or humanities elective**	3
GSP 180	1	GSE 102	3
MIL 101 (Men) or Elective (Women)	2	GSP 181	1
Suggested general education options:		GSS 142, 144, or 246	3
GSS 142	3	MIL 102 (Men) or Elective (Women)	2
Required science*	3	Required science*	3
Suggested general elective:			
GEO 101, 102, or humanities elective**	3		
	15		15

Second Year

EDU 202 or PSY 211	3	EDU 202 or PSY 211	3
ENG 211, humanities elective**, GEO 101 or 102	3	ENG 211 or 212	3
GSP 281 or approved elective	3	GSS 247 or 248	3
GSS 246 or 247	3	MAT 201	3
MIL 201 (Men) or Elective (Women)	2	MIL 202 (Men) or Elective (Women)	2
Required science*	3	Required science*	3
	17		17

*Required science includes any four of the following five courses: GLY 108, GSC or 161, 162, 170 or 176.

**Selected from among ART 200, DRA 100, or foreign language. If a foreign language is elected, six hours must be taken in the same foreign language to meet the humanities requirement.

ENGLISH

Preparatory curriculum for a major in English (teaching or non-teaching), College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	Foreign language or elective	3
GSP 180	1	General education biology elective*	3-4
MIL 101 (Men) or Elective (Women)	2	GSE 102	3
Suggested general education options:		GSP 181	1
Biology elective*	3-4	GSS 144, 246, ANT 110, or POL 101	3
Social science elective (Area III B 1)	3	MIL 102 (Men) or Elective (Women)	2
Suggested general elective:			
Foreign language	3		
	15-16		15-16

Second Year

First Semester	Hours	Second Semester	Hours
EDU 202, PSY 211, or elective**	3	EDU 202, PSY 211, or elective**	3
ENG 209 or 211	3	ENG 210 or 212	3
Foreign language or elective	3	Foreign language or elective	3
GSS 246 or 247	3	GSP 281	3
MIL 201 (Men) or Elective (Women)	2	GSS 247*** or general education social science elective (Area III B 2)	3
SPE 100 or elective	3	MIL 202 (Men) or Elective (Women)	2
	17		17

*To be selected from GSC 161, 162, BIO 111, 131, or 141.

**Students preparing for teaching must take PSY 211 and EDU 202.

***GSS 246 and 247 must be taken while the student is enrolled in Central University College.

FINANCE

See BUSINESS ADMINISTRATION

FOOD SERVICE MANAGEMENT

See HOME ECONOMICS

FOREIGN LANGUAGE

Preparatory curriculum for a major in Foreign Language (teaching or non-teaching), College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	Foreign language	3
GSP 180	1	General education mathematics or science*	3
MIL 101 (Men) or Elective (Women)	2-3	General education social science elective	3
Suggested general education options:		GSE 102	3
Mathematics or science*	3	GSP 181	1
Social science	3	MIL 102 (Men) or Elective (Women)	2-3
Suggested general elective:			
Foreign language	3		
	15-16		15-16

Second Year

EDU 202, PSY 211**, or foreign language	3	ENG 209 or 211	3
Foreign language	3	EDU 202, PSY 211**, or foreign language	3
General education mathematics or science*	3	Foreign language	3
GSP 281	3	General elucation mathematics or science*	3
GSS 246	3	GSS 247	3
MIL 201 (Men) or Elective (Women)	2-3	MIL 202 (Men) or Elective (Women)	2-3
	17-18		17-18

*Three hours of biological laboratory science and three hours of physical laboratory science must be taken while the student is in Central University College.

**EDU 202 and PSY 211 are required in Central University College for students seeking teaching certificates.

FORESTRY

See PRE-FORESTRY listed with BIOLOGY

GEOGRAPHY

Preparatory curriculum for a major in Geography (teaching), College of Arts and Sciences

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men)	
or	
Elective (Women)	2
General education options:	
GEO 210	3
GSC 161	3
Elective*, including GSH 124	5
	17

Second Semester	Hours
GEO 210, or humanities elective*, including GSH 126	3
GEO 216	3
GLY 108	3
GSC 161 or 162	3
GSE 102	3
GSP 181	1
MIL 102 (Men)	
or	
Elective (Women)	2
	18

Second Year

EDU 202 or PSY 211	3
ENG 211 or GSH 228	3
GSP 281	3
GSS 246	3
Elective*	3
MIL 201 (Men)	
or	
Elective (Women)	2
	17

EDU 202 or PSY 211	3
ENG 212 or GSH 230	3
GEO 220	3
GSS 247	3
MIL 202 (Men)	
or	
Elective (Women)	2
Elective*	3
	17

Preparatory curriculum for a major in Geography (non-teaching), College of Arts and Sciences

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men)	
or	
Elective (Women)	2
General education options:	
GEO 210	3
GSC 161	3
Elective*, including GSH 124	5
	17

Second Semester	Hours
GEO 210, or humanities elective*, including GSH 126	3
GLY 210	4
GSC 161 or 162	3
GSE 102	3
GSP 181	1
MIL 102 (Men)	
or	
Elective (Women)	2
Elective*	3
	19

Second Year

ENG 211 or GSH 228	3
GEO 215 or elective	3
GSP 281	3
GSS 246	3
Elective*	3
MIL 101 (Men)	
or	
Elective (Women)	2
	17

ENG 212 or GSH 230	3
GEO 216	3
GEO 220	3
GSS 247	3
MIL 202 (Men)	
or	
Elective (Women)	2
Elective*	3
	17

*Students who may be considering geography as a profession are encouraged to take two years of French or German. Six hours of this credit will satisfy a portion of the humanities requirement.

GEOLOGY

Preparatory curriculum for a major in Earth Science (teaching), Department of Geology, College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
BIO 141 or CHE 101	4	CHE 101 or 102	4-5
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
GSS 142 or GSP 281	3	GSS 142 or GSP 281	3
MAT 109	5	MAT 111	4
MIL 101 (Men) or Elective (Women)	2	MIL 102 (Men) or Elective (Women)	2
	18		17-18

Second Year

BIO 141 or CHE 102	4-5	EDU 202 or PSY 211	3
EDU 202 or PSY 211	3	GLY 211	3
GLY 210	4	GSS 247	3
GSS 246	3	MIL 202 (Men) or Elective (Women)	2
MIL 201 (Men) or Elective (Women)	2	PHY 131	5
	16-17		16

Preparatory curriculum for a major in Geology (non-teaching), College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
CHE 111	4	CHE 112	5
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
GSP 281 or BIO 141	3-4	GSP 281 or BIO 141	3-4
MAT 109	5	MAT 111	4
MIL 101 (Men) or Elective (Women)	2	MIL 102 (Men) or Elective (Women)	2
	18-19		18-19

Second Year

CHE 213	4	GEO 210	3
GLY 210	4	GLY 211	3
GSS 246	3	GSS 247	3
MAT 112	4	MAT 213	4
MIL 201 (Men) or Elective (Women)	2	MIL 202 (Men) or Elective (Women)	2
	17		15

HEALTH

(See Physical Education for preparatory curriculum in the area of Health and Physical Education)

Preparatory curriculum for a major in School Health, Division of Health, Physical Education, Recreation, and Athletics, College of Education

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	General education humanities elective, including GSH 126	3
GSP 180	1	GSC 162, 170, or 176	3
MIL 101 (Men) or Elective (Women)	2	GSE 102	3
Suggested general education options:		GSP 181	1
GSC 162	3	GSS 142 or 144	3
GSS 142	3	HEA 202	2
Suggested general elective:		MIL 102 (Men) or Elective (Women)	2
Humanities elective, including GSH 124	3		
	15		17

Second Year

First Semester	Hours	Second Semester	Hours
EDU 202 or PSY 211	3	BIO 301 and 378	4
ENG 211 or GSH 228	3	EDU 202 or PSY 211	3
GSC 170 or 176	3	ENG 212 or GSH 230	3
GSP 281* or general education elective	3	GSS 247	3
GSS 246	3	HEA 300	2
MIL 201 (Men) or Elective (Women)	2	MIL 202 (Men) or Elective (Women)	2
	17		17

*GSP 281 must be taken while the student is in Central University College.

HISTORY

Preparatory curriculum for a major in History (teaching), College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	Foreign language or GSP 281*	3
GSP 180	1	GSE 102	3
MIL 101 (Men) or Elective (Women)	2	GSP 181	1
Suggested general education options:		GSS 142 or 246	3
Foreign language or GSP 281*	3	HIS 202 or 203	3
General education biological science or general education physical science	3	MIL 102 (Men) or Elective (Women)	2
Suggested general elective:			
GSS 142 or HIS 202	3		
	15		15

Second Year

First Semester	Hours	Second Semester	Hours
EDU 202 or PSY 211	3	EDU 202 or PSY 211	3
Foreign language or GSP 281*	3	General education biological science or general education physical science	3
General education literature elective	3	General education literature elective	3
GSS 246 or 247	3	GSS 247 or 248	3
HIS 203 or history elective	3	MIL 202 (Men) or Elective (Women)	2
MIL 201 (Men) or Elective (Women)	2	Elective (minor)	3
	17		17

*GSP 281 must be taken while the student is in Central University College.

Preparatory curriculum for a major in History (non-teaching), College of Arts and Sciences

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
Foreign language or GSP 281*	3
General education biological science or general education physical science	3
Suggested general elective:	
GSS 142 or HIS 202	3
	15

Second Semester	Hours
Foreign language or GSP 281*	3
GSE 102	3
GSP 181	1
GSS 142 or 246	3
HIS 202 or 203	3
MIL 102 (Men) or Elective (Women)	2
	15

Second Year

Foreign language or GSP 281*	3
General education literature elective	3
GSS 246 or 247	3
HIS 203 or history elective	3
MIL 201 (Men) or Elective (Women)	2
Elective	3
	17

Foreign language or GSP 281*	3
General education biological science or general education physical science	3
General education literature elective	3
GSS 247 or 248	3
MIL 202 (Men) or Elective (Women)	2
Elective	3
	17

*GSP 281 must be taken while the student is in Central University College.

Preparatory curriculum for an area in History and Social Science (teaching), College of Arts and Sciences

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
General education biological science or general education physical science or GSP 281*	3
GSS 142 or general education social science elective	3
Suggested general elective:	
Social science elective	3
	15

Second Semester	Hours
General education biological science or general education physical science or GSP 281*	3
GSE 102	3
GSP 181	1
GSS 142 or 246	3
MIL 102 (Men) or Elective (Women)	2
Social science elective	3
	15

Second Year

EDU 202 or PSY 211	3
General education biological science or general education physical science or GSP 281*	3
General education literature elective	3
GSS 246 or 247	3
HIS 202	3
MIL 201 (Men) or Elective (Women)	2
	17

EDU 202 or PSY 211	3
General education literature elective	3
GSS 247 or 248	3
HIS 203	3
MIL 202 (Men) or Elective (Women)	2
Social science elective	3
	17

*GSP 281 must be taken while the student is in Central University College.

HOME ECONOMICS

Preparatory curriculum for a major in Home Economics, College of Applied Arts and Technology

First Year

First Semester	Hours	Second Semester	Hours
ART 200	3	CHE 102	5
CHE 101	4	GSE 102	3
GSE 101	3	GSP 181	1
GSP 180	1	GSP 281	3
HEC 203 or 204	3	HEC 203 or 204	3
HEC 208	3		
	17		15

Second Year

ECO 230	3	BIO 301	3
EDU 202 or PSY 211	3	BIO 379	1
GSS 246	3	EDU 202 or PSY 211	3
HEC 206 or 215	3	ENG 209 or 211	3
HEC 231	2	GSS 247	3
Science elective	2	HEC 206 or 215	3
	16		16

Preparatory curriculum for area majors in Dietetics and Food Service Management, Department of Home Economics, College of Applied Arts and Technology

First Year

First Semester	Hours	Second Semester	Hours
ACC 124	3	CHE 101	4
ECO 230	3	ECO 231	3
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
HEC 204	3	HEC 215	3
MIL 101 (Men) or Elective (Women)	2	MIL 102 (Men) or Elective (Women)	2
	15		16

Second Year

CHE 102	5	BIO 111	4
ENG 209 or 211	3	ENG 210 or 212	3
GSS 246	3	GSS 247	3
GSP 281	3	MIL 202 (Men) or HEC 203 (Women)	2-3
HEC 219	2	PSY 211	3
MIL 201 (Men) or Elective (Women)	2		
	18		15-16

INDUSTRIAL EDUCATION

Preparatory curriculum for a Comprehensive Area in Industrial Education, College of Applied Arts and Technology

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	GSC 170 or 176	3
GSP 180	1	GSE 102	3
MIL 101 (Men)		GSP 181	1
or		IED 130	1
Elective (Women)	2	IED 180 or 141	3
		IED 292 or 191	3
Suggested general education options:		MIL 102 (Men)	
Humanities elective	3	or	
Science or mathematics elective	3	Elective (Women)	2
Suggested general electives:			
IED 141	3		
IED 191	3		
	18		16

Second Year

EDU 202 or PSY 211	3	EDU 202 or PSY 211	3
GSP 281, GSC 170 or 176*	3	ENG 209, 211, or GSP 281*	3
GSS 246	3	GSS 247	3
IED 242 or 292	3	IED 311 or 242	3
IED 281 or 180	3	IED 351 or 281	3
MIL 201 (Men)		MIL 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	17		17

*Six hours of laboratory science must be taken in Central University College; GSP 281 must be taken in Central University College.

Preparatory curriculum for a Specialized Area in Industrial Education, College of Applied Arts and Technology

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
MIL 101 (Men)		IED 130	1
or		IED 141	3
Elective (Women)	2	IED 180 or MAT 109	3-5
		IED 292 or 191	3
Suggested general education options:		MIL 102 (Men)	
Humanities	3	or	
MAT 109	5	Elective (Women)	2
Suggested general electives:			
IED 191	3		
	17		16-18

Second Year

EDU 202 or PSY 211	3	EDU 202 or PSY 211	3
GSS 246	3	ENG 209 or 211	3
IED 242 or 292	3	GSP 281	3
MIL 201 (Men)		GSS 247	3
or		IED 281 or 180	3
Elective (Women)	2	MIL 202 (Men)	
PHY 131	5	or	
		Elective (Women)	2
	16		17

Preparatory curriculum for a major in Vocational-Industrial and Technical Teacher Education, College of Applied Arts and Technology

Option 1

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
GSC 161 or 162	3
GSS 142	3
Suggested general electives:	
Industrial education elective*	3
IED 160	3
	18

Second Semester	Hours
GSE 102	3
GSP 181	1
GSS 142, 144, or 246	3
IED 160 or industrial education elective*	3
MAT 109	5
MIL 102 (Men) or Elective (Women)	2
	17

Second Year

GSP 281	3
GSS 246 or 247	3
Industrial education elective*	3
MIL 201 (Men) or Elective (Women)	2
PHY 131	5
	16

ENG 209 or 211	3
GSS 247 or 248	3
IED 261	2
MIL 202 (Men) or Elective (Women)	2
PHY 132	5
	15

*Technical courses in industrial education as approved by advisor (18 semester hours maximum may be allowed by proficiency examination; six semester hours may be allowed for supervised work experience). A graduate of this approved program shall have a minimum of 2.000 clock hours of planned and supervised work experience in the occupation in which he plans to teach, or a minimum of three years of approved work experience in the occupation in which he plans to teach.

Option 2

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
GSC 161 or 162	3
GSS 142	3
Suggested general electives:	
IED 160	3
Industrial education elective*	3
	18

Second Semester	Hours
GSC 176	3
GSE 102	3
GSP 181	1
GSS 142, 144, or 246	3
IED 160 or industrial education elective*	3
MIL 102 (Men) or Elective (Women)	2
	15

Second Year

GSC 170	3
GSP 281	3
GSS 246 or 247	3
Industrial education elective*	6
MIL 201 (Men) or Elective (Women)	2
	17

ENG 209 or 211	3
General education science elective	3
GSS 247 or 248	3
Industrial education elective*	6
MIL 202 (Men) or Elective (Women)	2
	17

*Technical courses in industrial education as approved by advisor (18 semester hours maximum may be allowed by proficiency examination; six semester hours may be allowed for supervised work experience). A graduate of this approved program shall have a minimum of 2,000 clock hours of planned and supervised work experience in the occupation in which he plans to teach, or a minimum of three years of approved work experience in the occupation in which he plans to teach.

INDUSTRIAL TECHNOLOGY

Preparatory curriculum for a major in Industrial Technology, College of Applied Arts and Technology

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
Humanities	3
Social Science	3
Suggested general elective:	
INT 191 or 281	3-6
	15-18

Second Semester	Hours
GSE 102	3
GSP 181	1
INT 105	1
INT 141, 201, and 292; or INT 141 and MAT 109; or INT 191, 281, and MAT 109	8-11
MIL 102 (Men) or Elective (Women)	2
	15-18

Second Year

GSS 246	3
INT 106	1
INT 311	3
INT 351	3
INT 292 or MAT 109	3-5
MIL 201 (Men) or Elective (Women)	2
	15-17

GSP 281	3
GSS 247	3
Industrial technology elective	3
MIL 202 (Men) or Elective (Women)	2
PHY 131	5
	16

LAW ENFORCEMENT

Preparatory curriculum for a major in Law Enforcement,
College of Applied Arts and Technology

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
GSC 176	3
POL 100	3
Suggested general electives:	
LEN 101	3
OAD 151* or elective	2
	17

Second Semester	Hours
GSC 170 or 176	3
GSE 102	3
GSP 181	1
LEN 101 or 102	3
MIL 102 (Men) or Elective (Women)	2
OAD 151* or HEA 202	2
POL 100 or 101	3
	17

Second Year

GSC 162 or 170	3
GSP 281	3
GSS 246	3
HEA 202 or ENG 211	2-3
LEN 102 or 203	3
MIL 201 (Men) or Elective (Women)	2
	16-17

ENG 211 or 212	3
GSC 161 or 162	3
GSS 247	3
LEN 203 or 205	3
MIL 202 (Men) or Elective (Women)	2
Minor subject** or POL 101	3
	17

*OAD 151 may be waived for students who have completed high school typing.

**Minors are recommended in the fields of business, psychology, sociology, or political science. The minor field should be selected in consultation with the head of the Department of Law Enforcement. The course comprising the minor field (18 semester hours) will be selected with the approval of the head of the Department of Law Enforcement and the department head in the minor field.

LIBRARY SCIENCE

Preparatory curriculum for a major in Library Science (teaching),
College of Education

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
Foreign language*, ART 200, or GSH 124	3
GSS 142	3
Suggested general elective:	
General education mathematics or science**	3
	15

Second Semester	Hours
Foreign language*, ART 200, MUS 271, or GSH 126	3
General education mathematics or science**	3
GSE 102	3
GSP 181	1
GSS 142, 144, or 246	3
MIL 102 (Men) or Elective (Women)	2
	15

Second Year

EDU 202 or PSY 211	3
ENG 211, GSH 228, foreign language*, ART 200, or MUS 271	3
General education mathematics or science**	3
GSP 281	3
GSS 246 or 247	3
MIL 201 (Men) or Elective (Women)	2
	17

EDU 202 or PSY 211	3
ENG 211 or 212, or GSH 230	3
General education mathematics or science**	3
GSS 247 or 248	3
LIB 300	3
MIL 202 (Men) or Elective (Women)	2
	17

*Library Science majors are strongly urged to take a foreign language. Six hours of the same foreign language must be taken to meet the general education humanities requirement.

**Six hours of laboratory science must be taken while the student is in Central University College. Three hours of biological science and three hours of physical science are required for graduation.

MANAGEMENT

See BUSINESS ADMINISTRATION

MANUAL ARTS THERAPY

Preparatory curriculum for an area in Manual Arts Therapy (teaching), Department of Industrial Education, College of Applied Arts and Technology

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
Humanities elective	3
GSC 161 or 162	3
Suggested general electives:	
IED 141	3
IED 191	3
	18

Second Semester	Hours
GSC 161 or 162	3
GSE 102	3
GSP 181	1
IED 130	1
IED 180 or 141	3
IED 292 or 191	3
MIL 102 (Men) or Elective (Women)	2
	16

Second Year

EDU 202 or PSY 211	3
GSP 281	3
GSS 246	3
IED 242 or 292	3
IED 281 or 180	3
MIL 201 (Men) or Elective (Women)	2
	17

EDU 202 or PSY 211	3
ENG 209 or 211	3
GSC 176	3
GSS 247	3
IED 351 or 242	3
MIL 202 (Men) or Elective (Women)	2
	17

MARKETING

See BUSINESS ADMINISTRATION

MATHEMATICS

Preparatory curriculum for a major in Mathematics (teaching), College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
MIL 101 (Men) or Elective (Women)	2-3	GSP 281	3
Suggested general education options:		GSS 246 or general education social science elective	3
GSC 161 or 162	3	MAT 111 or 112	4
General education social science elective	3	MIL 102 (Men) or Elective (Women)	2-3
Suggested general elective:			
MAT 111 or 109	4-5		
	16-18		16-17

Second Year

EDU 202 or PSY 211	3	EDU 202 or PSY 211	3
GSS 246 or 247	3	GSS 247* or general education social science elective	3
MAT 112 or 213	4	MAT 380 or 213	3-4
MIL 201 (Men) or Elective (Women)	2-3	MIL 202 (Men) or Elective (Women)	2-3
PHY 201	5	PHY 202	5
	17-18		16-18

*GSS 246 and 247 must be taken while the student is enrolled in Central University College.

Preparatory curriculum for a major in Mathematics (non-teaching), College or Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
MIL 101 (Men) or Elective (Women)	2-3	GSP 281	3
Suggested general education options:		GSS 246 or general education social science elective	3
GSC 161 or 162	3	MAT 111 or 112	4
General education social science elective	3	MIL 102 (Men) or Elective (Women)	2-3
Suggested general elective:			
MAT 111 or 109	4-5		
	16-18		16-17

Second Year

ENG 209 or 211	3	ENG 210 or 212	3
GSS 246 or 247	3	GSS 247* or general education social science elective	3
MAT 112 or 213	4	MAT 370 or 213	3-4
MIL 201 (Men) or Elective (Women)	2-3	MIL 202 (Men) or Elective (Women)	2-3
PHY 201	5	PHY 202	5
	17-18		16-18

*GSS 246 and 247 must be taken while the student is enrolled in Central University College.

MEDICAL SCIENCE

See Pre-Medical Science

MEDICAL TECHNOLOGY

Preparatory curriculum for a major in Medical Technology,
College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
BIO 111 or 141	4	BIO 111 or 141	4
CHE 111	4	CHE 112	5
General education social science elective (Area III B 1)	3	GSE 102	3
GSE 101	3	GSP 181	1
GSP 180	1	GSS 246 or general education social science elective (Area III B 2)	3
MIL 101 (Men) or Elective (Women)	2	MIL 102 (Men) or Elective (Women)	2
	17		18

Second Year

CHE 213	4	BIO 242	5
ENG 209 or 211	3	ENG 210 or 212	3
GSS 246 or 247	3	GSP 281	3
MAT 109	5	GSS 247* or general education social science elective (Area III B 2)	3
MIL 201 (Men) or Elective (Women)	2	MIL 202 (Men) or Elective (Women)	2
	17		16

*GSS 246 and 247 must be taken while the student is enrolled in Central University College.

MUSIC

Preparatory curriculum for Bachelor of Music Education (teaching), Bachelor of Music with majors in Applied Music or Church Music, and Bachelor of Arts with a major in Music (teaching or non-teaching), College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
General education laboratory science	3	General education laboratory science	3
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
MIL 101 (Men) or Elective (Women)	2	MIL 102 (Men) or Elective (Women)	2
MUS 181	4	MUS 181 or 182	4
Music applied electives*	3	Music applied electives*	3
Music ensemble	½	Music ensemble	½
	16½		16½

Second Year

First Semester	Hours	Second Semester	Hours
EDU 202, PSY 211, GER 101, or elective	3	EDU 202, PSY 211, GER 102, or elective	3
GSP 281	3	General education social science elective	3
GSS 246	3	GSS 247	3
MIL 201 (Men) or Elective (Women)	2	MIL 202 (Men) or Elective (Women)	2
MUS 182 or 281	4	MUS 281 or 282	4
Music applied electives*	2	Music applied electives*	2
Music ensemble	½	Music ensemble	½
	17½		17½

*Music applied major, one or two hours, music applied minor and/or MUS 130 and 250, 110, 111, as prescribed in B.M.E., B.M., or B.A. programs.

OFFICE ADMINISTRATION

See Business Education

PHILOSOPHY

Preparatory curriculum for a major in Philosophy (non-teaching), College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	Foreign language	3
GSP 180	1	GSE 102	3
MIL 101 (Men) or Elective (Women)	2	GSP 181	1
General education options*	6	GSP 281 or general education requirement*	3-5
Suggested general elective: Foreign language	3	MIL 102 (Men) or Elective (Women)	2
		PHI 210 or 211	3
	15		15-17

Second Year

ENG 209, 211, or GSH 228*	3	ENG 210, 212, or GSH 230*	3
Foreign language or elective	3	Foreign language or elective	3
GSP 281 or general education requirement*	3-4	GSP 281 or general education requirement*	3-4
GSS 246 or 247	3	GSS 247 or general education social science elective (Area III B 2)	3
MIL 201 (Men) or Elective (Women)	2	MIL 202 (Men) or Elective (Women)	2
PHI 300	3	PHI 301	3
	17-18		17-18

*GSP 281 and six hours of laboratory science must be taken while the student is in Central University College. GSH 124, 126, 228, and 230 may be taken to meet the general education humanities requirement. See pages 48-49.

PHYSICAL EDUCATION

Preparatory curriculum for men majoring in Physical Education, or an area in Health, Physical Education and Recreation (teaching), Division of Health, Physical Education, Recreation, and Athletics, College of Education

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	ART 200, MUS 271, GSH 126, or GSP 281	3
GSP 180	1	GSC 162, 170, 176, or GLY 108	3
MIL 101	2	GSE 102	3
Suggested general education options:		GSP 181	1
ART 200, MUS 271, or GSH 124	3	GSS 142 or 144	3
GSP 281	3	HEA 202* or PHE 125	2
Suggested general electives:		MIL 102	2
GSS 142	3		
PHE 125	2		
	17		17

Second Year

EDU 202 or PSY 211	3	BIO 301 and 378, GSC 162, 170, 176, or GLY 108	3-4
ENG 211 or GSH 228	3	EDU 202 or PSY 211	3
GSC 162, 170, 176, or GLY 108	3	ENG 212 or GSH 230	3
GSS 246	3	GSS 247	3
HEA 202* (if needed)	0-2	MIL 202	2
MIL 201	2	PHE 215 or 216	2
PHE 215 or 216	2		
	16-18		16-17

*Students preparing for the area major must take HEA 202.

Preparatory curriculum for women majoring in Physical Education, or an area in Health, Physical Education, and Recreation (teaching), Division of Health, Physical Education, and Recreation, College of Education

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	General education humanities, including GSH 126	3
GSP 180	1	GSC 162 or general education physical science**	3
Suggestel general education options:		GSE 102	3
GSC 162 or general education physical science	3	GSP 181	1
GSS 142	3	GSS 142 or 144	3
Suggested general electives:		PHE 125 or optional approved elective*	0-2
General education humanities, including GSH 124	3	REC 201, general education requirement, or approved elective*	3
HEA 202 or approved elective*	2		
PHE 125	2		
	17		16-18

Second Year

EDU 202 or PSY 211	3	BIO 301	3
ENG 209, 211, or GSH 228	3	BIO 378	1
General education mathematics or science**	3	EDU 202 or PSY 211	3
GSS 246	3	ENG 210, 212, or GSH 230	3
HEA 202 or optional approved elective*	0-2	GSP 281*** or approved elective*	3
PHE 207	2	GSS 247	3
PHE 300	2	PHE 208	2
	16-18		18

*Students preparing to major in physical education should choose electives from their other major or minor field with approval of advisor.

**GSC 162 and three hours of general education physical science must be taken before the second semester of the sophomore year.

***GSP 281 must be taken while the student is enrolled in Central University College.

PHYSICS

Preparatory curriculum for a major in Physics (teaching or non-teaching), College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
GSP 281	3	MAT 111 or 112	4
MAT 109 or MAT 111	4-5	MIL 102 (Men) or Elective (Women)	2
MIL 101 (Men) or Elective (Women)	2	PHY 201 or 202	5
PHY 201 or 107 and general education social science (Area III B 1)	4-5	PHY 107 or general education social science (Area III B 1)	1-3
	17-19		16-18

Second Year

EDU 202, PSY 211*, or CHE 111	3-4	EDU 202, PSY 211*, or CHE 112	3-5
GSS 246	3	GSS 247	3
MAT 112 or 213	4	MAT 213 or 453	3-4
MIL 201 (Men) or Elective (Women)	2	MIL 202 (Men) or Elective (Women)	2
PHY 202 or 300	5	PHY 307	4
	15-18		15-18

*Students preparing for teaching must take EDU 202 and PSY 211.

POLITICAL SCIENCE

Preparatory curriculum for a major in Political Science (teaching or non-teaching), College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	Foreign language or elective	3
GSP 180	1	General education biology or physical science*	3
MIL 101 (Men) or Elective (Women)	2	GSE 102	3
Suggested general education options:		GSP 181	1
Laboratory science	3	MIL 102 (Men) or Elective (Women)	2
Social science	3	POL 100 or 101	3
Suggested general elective:			
Foreign language	3		
	15		15

Second Year

EDU 202, PSY 211, or general education mathematics or science*	3	EDU 202, PSY 211, or general education mathematics or science*	3
General education literature	3	General education literature	3
GSP 281	3	GSS 247	3
GSS 246	3	Foreign language or approved elective*	3
MIL 201 (Men) or Elective (Women)	2	MIL 202 (Men) or Elective (Women)	2
POL 101, foreign language, or approved elective*	3	Political science elective	3
	17		17

*Six hours of approved laboratory science must be taken while the student is in Central University College; EDU 202 and PSY 211 must be taken in Central University College by students seeking teaching certificates.

PRE-FORESTRY

See Biology

PRE-MEDICAL SCIENCES

Preparatory curriculum for a major in Pre-Medical Sciences, College of Arts and Sciences

First Year

First Semester	Hours	Second Semester	Hours
BIO 111 or 141	4	BIO 111 or 141	4
CHE 111	4	CHE 112	5
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
GSS 246	3	GSS 247	3
MIL 101 (Men) or Elective (Women)	2	MIL 102 (Men) or Elective (Women)	2
	17		18

Second Year

BIO 242	5
CHE 213	4
MAT 109	5
MIL 201 (Men) or Elective (Women)	2
	16

BIO 221	4
ECO 230	3
GSP 281	3
MAT 111	4
MIL 202 (Men) or Elective (Women)	2
	16

PRE-VETERINARY

See Biology

PSYCHOLOGY

Preparatory curriculum for a major in Psychology (non-teaching), College of Education

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
ANT 110 or GSS 142	3
GSC 162 or BIO 141	3-4
Suggested general elective:	
GSP 281 or foreign language	3
	15-16

Second Semester	Hours
GSC 162, 176, MAT 107*, or BIO 141	3-4
GSE 102	3
GSP 181	1
GSP 281, foreign language, or elective*	3
GSS 246	3
MIL 102 (Men) or Elective (Women)	2
	15-16

Second Year

BIO 141, GSC 162, GSC 176, or MAT 107*	3-4
ENG 211	3
GSP 281, foreign language, or elective*	3
GSS 247	3
MIL 201 (Men) or Elective (Women)	2
PSY 211	3
	17-18

BIO 301	3
ENG 212	3
GSP 281, foreign language, or elective*	3
GSS 248, ANT 202, or SOC 231**	3
MIL 202 (Men) or Elective (Women)	2
PSY 213	3
	17

*GSP 281, six hours of one foreign language, MAT 107, and BIO 141 or GSC 162 must be taken while the student is in Central University College. This may require use of listed optional elective.

**GSS 248 must be taken if a general education social science course from Area III B 1 was chosen in the itial semester. ANT 202 or SOC 231 must be taken if a course from Area III B 2 was chosen in the initial semester.

RECREATION

Preparatory curriculum for a major in Recreation Administration (nonteaching), Division of Health, Physical Education, Recreation, and Athletics, College of Education

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
ART 200, MUS 271, or GSH 124	3
GSP 281	3
Suggested general electives:	
HEA 202 or GSS 142	2-3
REC 100	2
	16-17

Second Semester	Hours
ART 200, MUS 271, GSH 126 or GSP 281	3
GSC 161 or 162, GLY 108 or 210	3
GSE 102	3
GSP 181	1
GSS 142 or 144	3
MIL 102 (Men) or Elective (Women)	2
REC 102 or HEA 202	2
	17

Second Year

ENG 211 or GSH 228	3
GSC 161 or 162, GLY 108 or 210	3
GSS 246	3
MIL 201 (Men) or Elective (Women)	2
POL 101	3
REC 100, or PHE 215 (Men) or PHE 207 (Women)	2
	16

ENG 212 or GSH 230	3
GSC 161 or 162, GLY 108 or 210	3
GSS 247	3
MIL 202 (Men) or Elective (Women)	2
REC 102 or 201	2-3
PHE 215 or 216 (Men), or PHE 207 or 208 (Women)	2
	15-16

SOCIOLOGY

Preparatory curriculum for majors in Sociology (teaching or nonteaching) or Social Work, College of Arts and Sciences

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
Suggested general education options:	
ANT 110	3
Mathematics or science*	3
Suggested general elective:	
General education humanities	3
	15

Second Semester	Hours
ANT 110 of elective	3
General education humanities	3
General education mathematics or science*	3
GSE 102	3
GSP 181	1
MIL 102 (Men) or Elective (Women)	2
	15

Second Year

EDU 202, PSY 211, or elective**	3
ENG 211	3
General education mathematics or science*	3
GSS 246	3
MIL 201 (Men) or Elective (Women)	2
SOC 231	3
	17

EDU 202, PSY 211, or elective**	3
ENG 212	3
General education mathematics or science*	3
GSP 281	3
GSS 247	3
MIL 202 (Men) or Elective (Women)	2
	17

*Three hours of biological laboratory science and three hours of physical laboratory science must be taken in Central University College.

**EDU 202 and PSY 211 are required for teaching certificates.

SCHOOL HEALTH

See Health

SPEECH AND SPEECH PATHOLOGY

See Drama and Speech

UNDECIDED

Preparatory curriculum for students who have not yet decided upon a major

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 (Men) or Elective (Women)	2
General education option, including GSH 124	6
General elective	3-6
	15-18

Second Semester	Hours
General education humanities, including GSH 126	3
General education mathematics or science*	3-4
GSE 102	3
GSP 181	1
GSS 144 or 246	3
MIL 102 (Men) or Elective (Women)	2
Elective	0-2
	15-18

Second Year

ENG 209, 211, or GSH 228	3
General education mathematics or science*	3-4
GSP 281	3
GSS 246 or 247	3
MIL 201 (Men) or Elective (Women)	2
Elective	0-3
	14-18

ENG 210, 212, or GSH 230	3
General education mathematics or science*	3-4
GSS 247 or 248	3
MIL 202 (Men) or Elective (Women)	2
Elective	3-7
	14-19

*Six hours of laboratory science must be taken in Central University College.

VETERINARY MEDICINE

See Pre-Veterinary Medicine listed with Biology

WILDLIFE

See Biology

TWO-YEAR PROGRAMS

The following two-year programs are described in the sections of the catalogue devoted to the sponsoring departments in the upper division colleges as indicated below.

Program	**College**	**Department**
Agricultural Mechanization*	Applied Arts and Technology	Agriculture
Applied Electronics Technology*	Applied Arts and Technology	Industrial Technology
Dairy Science and Technology*	Applied Arts and Technology	Agriculture
Drafting and Design Technology*	Applied Arts and Technology	Industrial Technology
Drafting Technology*	Applied Arts and Technology	Industrial Technology
Electronic Data Processing*	Business	Business Administration
Electronics Technology*	Applied Arts and Technology	Industrial Technology
Engineering (Pre-)	Arts and Sciences	Mathematics
Food Service Technology*	Applied Arts and Technology	Home Economics
Forestry (Pre-)	Applied Arts and Technology	Agriculture
Law Enforcement—Corrections*	Applied Arts and Technology	Law Enforcement
Law Enforcement—General*	Applied Arts and Technology	Law Enforcement
Law Enforcement—Industrial Security*	Applied Arts and Technology	Law Enforcement
Law Enforcement—Juvenile*	Applied Arts and Technology	Law Enforcement
Nursing*	Applied Arts and Technology	Nursing
Optometry (Pre-)	Arts and Sciences	Physics
Ornamental Horticulture*	Applied Arts and Technology	Agriculture
Pharmacy (Pre-)	Arts and Sciences	Chemistry
Printing Technology*	Applied Arts and Technology	Industrial Technology
Recreation Supervision*	Education	Health, Physical Education and Recreation
Secretarial Science (one-year)	Business	Business Education and Office Administration
Secretarial Science (two-year)*	Business	Business Education and Office Administration
Vocational-Industrial and Technical Teacher Education*	Applied Arts and Technology	Industrial Education
Woodcraft*	Applied Arts and Technology	Kentucky School of Crafts

*These programs lead to an Associate of Arts Degree.

College of Applied Arts and Technology

Agriculture . *101*

Home Economics . *108*

Industrial Education . *114*

Industrial Technology . *125*

Law Enforcement . *135*

Nursing . *140*

The Kentucky School of Crafts . *141*

Kentucky Peace Officers' Standards and Training Council . *143*

Traffic Safety Institute . *144*

COLLEGE OF APPLIED ARTS AND TECHNOLOGY

John D. Rowlett, Dean

Jack A. Luy, Associate Dean

The College of Applied Arts and Technology is organized to provide programs of instruction, public service, and research as these relate to the broad field of technical education. The College offers undergraduate programs to prepare teachers of technical subjects, and, in cooperation with the Graduate School and the College of Education, a program of specialization in industrial education leading to the Master of Arts in Education Degree. In addition, the College administers a variety of two and four year degree programs designed to prepare individuals for technical occupations and professions. A number of research, demonstration, and public service projects, related to technical education, are conducted by members of the College faculty.

The College of Applied Arts and Technology is composed of nine departments: Agriculture, Home Economics, Industrial Education, Industrial Technology, Nursing, Law Enforcement, the Kentucky Peace Officers' Standards and Training Council, the Kentucky School of Crafts, and the Traffic Safety Institute.

The Department of Agriculture administers two-year programs designed to prepare technicians for agriculture-related occupations. The Associate of Arts Degree is awarded to students who successfully complete the prescribed programs. In addition, a baccalaureate program with a first major in Agriculture and a minor in Business is offered. The department also administers certain pre-professional and transfer curricula for students who plan to complete baccalaureate programs at other institutions.

The Department of Home Economics administers baccalaureate programs to prepare home economics teachers, food service management specialists, and dietitians. In addition, the department offers an associate degree program in food service technology.

The Department of Industrial Education offers programs to prepare teachers in industrial arts and vocational technical education. In addition, the department offers a program of study for the preparation of manual arts therapists. These are baccalaureate level programs.

The Department of Industrial Technology administers two- and four-year programs for the preparation of technicians for industrial employment. The Associate of Arts Degree is awarded to those who successfully complete the two-year programs, and the Bachelor of Science Degree is awarded those completing the four-year programs.

The Department of Nursing offers a two-year, Associate of Arts, Registered Nurse program. Students who successfully complete the program of study are eligible to write the State Board Examination for Registered Nurses.

The School of Law Enforcement administers four Associate of Arts (two-year) programs and a single baccalaureate program. Opportunities are provided for a degree of specialization within the two-year programs.

The Kentucky Peace Officers' Standards and Training Council, organized in September, 1966, has as its purpose the development of minimum standards and training programs for peace officers in Kentucky.

The Kentucky School of Crafts offers on-campus and extension instruction in vocational crafts. An Associate of Arts Degree program is available with an emphasis in woodcraft.

The Traffic Safety Institute was established in 1966 to provide instruction, public service, and research related to the broad area of traffic safety.

Degree Requirements

General university requirements, described elsewhere in the catalog, as well as specific course requirements set forth in the descriptions of curricula, must be met by students completing baccalaureate programs administered in the College of Applied Arts and Technology. All baccalaureate programs in the College of Applied Arts and Technology must have an area of concentration, or two majors, or one major and two minors, or one major and one minor. Students should apply for admission to the College during the semester in which Central University College requirements are expected to be completed which is normally the last semester of the sophomore year. Students should apply for a planned curriculum, at the Office of the Dean, not later than the first semester of the junior year.

A number of associate degree programs are administered by the College of Applied Arts and Technology. Specific program requirements are outlined in this section of the catalog. Students should apply for a planned curriculum, at the Office of the Dean, during the second semester of the freshman year.

AGRICULTURE (AGR)

Householder, W., Chairman; Hayes, Stocker, Whitaker

Eastern Kentucky University offers students of Agriculture three types of programs: (1) Two-year technical training curriculums leading to an Associate of Arts Degree; (2) a four-year major in Agriculture with a minor in Business leading to a Bachelor of Science Degree; and

(3) a minor in Agriculture. Graduates of either program are in an unprecedented demand because the rapidly changing labor structure in Agriculture throughout Kentucky and the United States is placing increasing value on technically trained personnel.

Because the term "agricultural technician" is relatively new, it is carefully defined here for the benefit of the prospective student. An agricultural technician is a worker located between the skilled worker and the professional in the job classification structure, in his work performance, and in his educational attainment. He possesses both the skill and ability to work independently or with minimal supervision from a professional in analyzing and interpreting information, diagnosing problems, making decisions; and making practical applications of theoretical knowledge in performing specific tasks in specialized fields as production, processing, distribution, or marketing of goods and services in agriculture. Primarily, he exercises cognitive skills, but he must also be able to supervise and perform manipulative skills.

Even though the technical student of Agriculture is in great demand in the labor market, and regardless if he is a two or four-year student, he must qualify himself for employment by preparing in three major areas:

1. The technical content of a selected area in agriculture.
2. The basic principles of agriculture in general.
3. Personal improvement through the intellectual pursuit of general education and business courses.

MAJOR IN AGRICULTURE WITH A MINOR IN BUSINESS

Curriculum for a Bachelor of Science Degree with a minor in Business. The first two years of this curriculum may be found in the Central University College section of the catalog.

Third Year

First Semester	Hours	Second Semester	Hours
AGR 280 series	5	AGR 312*	3
MGT 200	3	AGR 310	4
ENG 209, 211	3	MKT 300	3
ECO 230	3	ENG 210, 212	3
GLY 108, 210, 302	3	ECO 231*	3
	17		16

Fourth Year

AGR 340**	3	AGR 440*	3
AGR 410	1	ART 392***	3
ART 390***	3	GBU 306*	3
GBU 300	3	Electives	5
Electives	6	AGR 411	1
	16		15

*Substitutions permitted by approval of department chairman.

**GEO 402 or GEO 440 may be substituted.

***Other humanities may substitute for art series.

ASSOCIATE OF ARTS DEGREE CURRICULA

AGRICULTURAL MECHANIZATION

A student receiving an Associate of Arts Degree in agricultural mechanization will have had a background of training in the areas of communications, business, and agriculture in addition to technical training in agricultural mechanization. He will be qualified to seek employment in agricultural businesses in the areas of sales, parts, assembly, and repairs of agricultural equipment.

Curriculum for the Associate of Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
AGR 125	4	AGR 213	4
AGR 130	4	AGR 272	5
AGR 263	1	GSE 102	3
INT 201*	3	GSP 181	1
GSE 101	3	OAD 101	3
GSP 180	1	MIL 102	2
MIL 101	2		
	18		18

Second Year

AGR 282	5	AGR 392	5
AGR 215	4	AGR 243*	3
ACC 124*	3	AGR 310	4
INT 191	3	AGR 260	1
MIL 201	2	INT 180*	3
		MIL 202	2
	17		18

*Substitutions are possible.

DAIRY SCIENCE AND TECHNOLOGY

The primary function of this curriculum is to give the student a deep insight into the technical management of dairy cattle herds. His training will qualify him to work with dairy herds or with related agricultural industries in the areas of sales and service.

Curriculum for an Associate or Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
AGR 125	4	AGR 213	4
AGR 130	4	AGR 270	5
AGR 263	1	GSE 102	3
INT 201*	3	GSP 181	1
GSE 101	3	OAD 101	3
GSP 180	1	MIL 102	2
MIL 101	2		
	18		18

Second Year

AGR 215	4	AGR 260	1
AGR 280	5	AGR 310	4
ACC 124*	3	AGR 390	5
MIL 201	2	Restricted elective	3
AGR 243*	3	MIL 202	2
		GSC 162 or 170	3
	17		18

*Substitutions possible.

ORNAMENTAL HORTICULTURE

This curriculum trains the student in plant propagation, nursery and greenhouse operation and production, principles of landscape design, and maintenance of landscapes. He will qualify as a technical worker in nursery and greenhouse businesses, recreational organizations, state highway and parks departments, and other institutions and businesses involved with ornamental plantings. He might also organize a private service.

Curriculum for the Associate of Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
AGR 131	4	AGR 213	4
AGR 130	4	AGR 271	5
AGR 263	1	GSE 102	3
INT 201*	3	GSP 181	1
GSE 101	3	OAD 101	3
GSP 180	1	MIL 102	2
MIL 101	2		
	18		18

Second Year

AGR 124*	3	INT 191*	3
AGR 215	4	AGR 260	1
AGR 281	5	AGR 391	5
AGR 243*	3	GSC 161 or 170	3
MIL 201	2	MIL 202	2
		Restricted elective	3
	17		17

*Substitutions possible.

MINOR IN AGRICULTURE

A minor consists of 18 hours of Agriculture arranged between the department chairman and the student seeking the minor. The objective is to meet the student's need for taking a minor in Agriculture. However, six or more hours shall be upper division courses.

PRE-FORESTRY CURRICULUM

Arrangements made through the Southern Regional Education Board provide for students who wish to prepare as professional foresters to do the first two years of their work at Eastern Kentucky University and complete their training in two years and one summer at North Carolina State College in Raleigh.

Students in the two-year program should complete the following courses before transferring to a school of forestry.

	Hours		Hours
GSE 101, 102	6	CHE 111, 112	9
BIO 111, 131, 335, 336	13	ECO 230	3
MAT 109, 111, 112	13	GSS 246, 247	6
GSP 180, 181	2	PHY 131, 132	10
MIL 101, 102, 201, 202	8	AGR 215	4

A three-year program leading to a B.S. degree with a major in biology is outlined in the College of Arts and Sciences section of this catalogue.

PRE-VETERINARY MEDICINE

Since 1950, Kentucky students have had the opportunity of entering veterinary medical training at Auburn University, Auburn, Alabama, or at Tuskegee Institute, Tuskegee, Alabama. The State of Kentucky has made this possible through its participation in the Southern Regional Education program.

The State pays $1,500 per student per year through the Southern Regional Education Board to the institutions. Each year Auburn University holds twelve places and Tuskegee Institute holds two places for entering students from Kentucky. These students must meet admission requirements of the schools. If admitted, Kentucky students have the same status as Alabama students. They do not pay out-of-state tuition.

The minimum education requirement for admission to the School of Veterinary Medicine, Auburn Unversity, is the satisfactory completion of two years of study in an approved accredited college or university. A total of 60 semester hours of college work must be completed with a grade point average of at least 2.75. In addition, applicants are required to meet the military and physical training requirements in effect at the institution attended.

The Pre-Vet course includes:

	Hours		**Hours**
GSE 101, 102	6	PHY 131, 132	10
HIS 202 or 203	3	AGR 125, 221	8
MAT 109	5	Foreign Language*	6
CHE 111, 112, 213, 361, 362	23	BIO 111, 141, 221 or 242	12-13
MIL 101, 102, 201, 202	8	GSP 180, 181	2

Applicants who have completed the requirements for a B.S. Degree in Agriculture with a scholastic average of at least 2.75 are qualified for admission. A three-year program culminating with a B.S. Degree is described in the College of Arts and Sciences section of this catalogue.

In the selection of students for admission to the School of Veterinary Medicine the Committee on admission gives due consideration to the applicant's background, adaptability to the profession, age, scholastic record, and residence. Personal interviews and aptitude tests may be required.

*Medical Vocabulary is offered by correspondence from Auburn. Two semesters of modern foreign language may be substituted for this requirement.

AGRICULTURE (AGR)

AGR 125. (Formerly AGR 25.) Principles of Animal Science. (Formerly Farm Livestock Production.) **Four hours. I.**

Management and production practices of livestock enterprises; types, market classes and grades of beef cattle, sheep, and swine, and the breeds and products of dairy cattle.

AGR 130. (Formerly Introduction to Agronomy.) Principles of Agronomy. **Four hours. I.**

Principles of plant growth, reproduction, crop-soil relationships. Provides foundation of information for further study in field crop production and soil management.

AGR 131. (Formerly AGR 12.) Principles of Plant Propagation. (Formerly General Horticulture. **Four hours. I.**

Principles and techniques of plant reproduction, including soil-water-temperature-plant relationship, methods of propagation and growth habit, adaptations and uses.

AGR 201. Directed Work Experience. **One to four hours.** A.
A minimum of three hours per week of work on the college farm or an approved farm. Two months of full-time employment in an approved agri-business may be substituted for the work requirement. Students will meet one hour each week for discussion and review of current publications.

AGR 213. Principles of Agricultural Mechanics. **Four hours.** I, II.
Principles of operation, maintenance and repair of gasoline engines and electrical motors; basic electrical circuits and electrical controls for agricultural mechanization systems and power requirements for agricultural structures; students receive theoretical and practical experience.

AGR 215. (Formerly **AGR** 30 and 315.) Principles of Soils. (Formerly called Soils.) **Four hours.** II.
Soil origin, classification, and properties; soil conservation; soil micro-organisms; organic matter; soil water; soil minerals; lime, commercial fertilizers; soil erosion; soil management. Students receive field experience.

AGR 221. (Formerly AGR 31 and 321.) Principles of Animal Nutrition. **Four hours.** I.
Digestion, absorption, assimilation, and utilization of nutrients by domestic animals; principle feeds and nutritive ratios; formulating livestock rations.

AGR 225. Livestock Judging. **Three hours.** A.
An evaluation of purebred and commercial dairy cattle, beef cattle, sheep, and swine; practice in written and oral reasons.

AGR 243. (Formerly SOC 114.) Agricultral Sociology. **Three hours.** I.
Social organization of individuals and groups of individuals involved in the pursuit of rural or non-urban life. Historical and present trends in agriculture; processes of technological development and how rural people adopt change.

AGR 244. (Formerly AGR 20 and 211.) Elementary Farm Crops. **Three hours.** I
Field crop production; pasture management, weed control; crop rotation; tillage.

AGR 260. Job Placement. **One hour.** II.
Required of all two year students in their fourth semester. Job placement orientation; techniques of being interviewed; preparing bio-data sheet; writing letters of inquiry and investigating job potentials.

AGR 262. Home Landscape. **One hour.** I, II.
Basic understanding of the principles of landscape design for the home and/or municipal situations.

AGR 263. Seminar in Technical Agriculture. **One hour.** I, II.
For two and four year students who want to study problems in technical agriculture in depth.

AGR 270. (Formerly AGR 223.) Farm Dairy Production. (Formerly Farm Dairying.) **Five hours.** II.
The dairy cow and her requirements in meeting her potential milk production; principles of milk production; basic practices of feeding, sanitation, housing, dairy cow selection, and production records.

AGR 271. Nursery and Plant Propagation Techniques. **Five hours.** II.
Cultural practices of propagating and growing evergreen, deciduous trees, shrubs, and hardy perennials to transplanting size, using structures and facilities not including the greenhouse. Students spend considerable time in the nursery.

AGR 272. Principles of Agricultural Machinery. **Five hours.** II.
Selection, operation, and maintenance of agricultural machinery used in the production and processing of agricultural products. Student experiences assembling different types of new farm machinery and reconditioning old machinery.

AGR 280. (Formerly AGR 324.) Technical Management of Dairy Cattle. **Five hours.** I.

A continuation of AGR 270 with greater emphasis on herd management, feeding systems, sanitation and disease control; planning housing facilities; producing quality forages and pastures and herd improvement.

AGR 281. Greenhouse Operation and Management. **Five hours.** I.

Plant propagation and growing techniques in a greenhouse. The student also learns operation procedures and the economics of operating a greenhouse and using cold and hot frames.

AGR 282. Agricultural Power Systems. **Five hours.** I.

Operation, maintenance, and repair of agricultural power machinery and tractor systems including hydraulics, electrical circuitry, carburetion, lubrication, cooling systems and diesel operation; includes methods of environmental control.

AGR 310. (Formerly AGR 32 and 345.) Principles of Farm Management. **Four hours.** II.

Organization and management of farms; cost of production; profits; types of farming; soil management; cropping systems and livestock enterprises.

AGR 312. Advanced Crops: Forage Crops. **Three hours.** II.

Prerequisite: AGR 130.

Cultural practices and principles of forage crops, especially grasses and legumes suited to Kentucky farms.

AGR 313. Methods of Using Agricultural Chemicals. **Four hours.** I.

Prerequisite: GSC 170 or equivalent.

The chemicals and physical properties of agricultural chemicals, their uses and effects on plants and their toxicity to man and animals. The student experiences work in formulations, calibration of equipment, and methods of application.

AGR 314. Nature of Insects, Parasites, and Diseases. **Four hours.** II.

Insects, parasites, and diseases as they relate to agricultural production, processing, and distribution; life cycles; damages to agricultural products; methods of control and extermination.

AGR 327. (Formerly AGR 44 and 227.) Beef Production. **Three hours.** I.

Prerequisite: AGR 125.

History, importance, and trends associated with the beef cattle industry; systems of selection, breeding, feeding, and management of beef cattle.

AGR 328. (Formerly AGR 26 and 228.) Pork Production. **Three hours.** A.

Prerequisite: AGR 125.

Types and breeds of swine; selection; breeding; feeding; disease control.

AGR 340. (Formerly AGR 240.) Conservation of Agricultural Resources. **Three hours.** I.

Conservation of soils and their fertility; erosion and control; soil conservation methods for individual farms; water supply and distribution; problems of water and air pollution; problems resulting from the population explosion.

AGR 390. Dairy Processing and Related Businesses. **Five hours.** II.

Marketing milk, milk sanitation, and applied bacteriology, butterfat, testing, laboratory tests for various dairy products, dairy plant operations, artificial insemination, DHIA testing, operation of milk cooperates and ohter related business will be studied. Emphasis will be on both practices and managerial techniques.

AGR 391. Landscape Methods and Related Businesses. **Five hours.** II.

Elements of design and the execution of the landscape architect plan. Additional emphasis will be placed on occupations related to ornamental horticulture including turf maintenance, specialized flower production, park and roadside management and industrial grounds management.

AGR 392. Agricultural Mechanization Systems. **Five hours.** II.
Principles and planning materials handling systems, drying systems, water pumps and systems, lighting and ventilation systems and feed mixing systems used in agricultural production. Student experiences many different kinds of agricultural mechanical systems.

AGR 410. Special Problems Seminar. **One hour.** I.
The students choose a problem and work under the supervision of the instructor in the field of the problem.

AGR 411. Seminar on Emerging Agricultural Technology. **One hour.** I.
This course provides students an opportunity to study managerial, technological, and consumer trends in agriculture.

AGR 440. Agricultural Financing. **Three hours.** II.
Uses and types of agricultural credit, credit institutions, and relating credit needs to farm enterprises.

AGR 577. Workshop in the Conservation of Natural Resources. **Three hours.** S.
Currently, this workshop is held four weeks in the summer for teachers returning for graduate work. Instruction is given in the areas of soil, water, fish and wildlife, and forest conservation and methods of teaching related units at the elementary and junior high level.

HOME ECONOMICS (HEC)

Chairman (to be appointed); Buchholz, Carroll, Chase, Creamer, Moss, Slater.

The broad purpose of the Home Economics Department is to educate the individual for successful personal and family life and for a satisfying career in an expanding professional field. The curriculum is designed to build a liberal background and skills along with professional preparation.

Graduates of this department can qualify for opportunities in education, food and nutrition, and business.

CURRICULUM FOR AN AREA IN HOME ECONOMICS

(Teaching)

The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
ENG 210 or 212	3	EDU 317	4
GSS 248	3	HEC 303 or 307	3
HEC 301	3	HEC 306	3
HEC 303 or 307	3	HEC 330	3
HEC 350	3	HEC 366	4
	15		17

Fourth Year

ART 390	3	EDU 462	4
HEC Elective	2	EDU 463	10
HEC 305	3	HEC 466	3
HEC 322	3		
HEC 403	4		
	15		17

CURRICULUM FOR AN AREA MAJOR IN FOOD SERVICE MANAGEMENT

(Non-Teaching)

The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
ART 200	3	BIO 301	3
BIO 221	4	BIO 379	1
HEC 301	3	HEC 306	3
HEC 317	3	HEC 313 or 316	3
HEC 418	1	HEC 315	3
MGT 200	3	HEC 418	1
		HEC 330* or 303	3
	17		17

Fourth Year

HEC 302	3	HEC 318	2
HEC 403*	4	HEC 319	3
HEC 418	1	HEC 418	1
HEC 506	3	MUS 271	3
PSY 320	3	PSY 402	3
		Electives	2
	14		14

*Men are not required to take HEC 330 or HEC 403.
Suggested electives HEC 410 and HEC 307.

CURRICULUM FOR AN AREA MAJOR IN DIETETICS

(Non-Teaching)

The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
ART 200	3	BIO 301	3
BIO 221	4	BIO 379	1
HEC 301	3	HEC 306	3
HEC 317	3	HEC 315	3
HEC 413	1	HEC 330* or 303	3
MUS 271	3	HEC 413	1
		Electives	3
	17		17

Fourth Year

HEC 302	3	HEC 318	2
HEC 403*	4	HEC 319	3
HEC 413	1	HEC 410	3
HEC 506	3	HEC 413	1
PSY 320	3	PSY 402	3
Electives	3-4	Electives	3
	17-18		15

*Men are not required to take HEC 330 or HEC 403.
Suggested electives HEC 313 and HEC 316.

FOOD SERVICE TECHNOLOGY

This curriculum has been designed to prepare men and women for positions in food service establishments. The program combines technical food service management courses and general education courses that lead to an Associate of Arts Degree.

CURRICULUM FOR FOOD SERVICE TECHNOLOGY

(Non-Teaching)

First Year

First Semester	Hours	Second Semester	Hours
CHE 104	4	ACC 124	3
GSE 101	3	GSC 162	3
GSP 180	1	GSE 102	3
HEC 204	3	GSP 181	1
MIL 101 (Men) or Elective (Women)	2	HEC 215	3
SPE 100	3	HEC 219	2
		MIL 101 (Men) or Elective (Women)	2
	16		17

Second Year

ACC 125	3	HEC 315	3
BIO 221	4	HEC 316	3
HEC 302	3	HEC 319	3
HEC 313	3	MGT 320	3
MGT 200	3	MIL 202 (Men) or Elective (Women)	2
MIL 201 (Men) or Elective (Women)	2	PSY 211	3
	18		17

Summer Session

HEC 314	2
	2

CURRICULUM FOR A FIRST MAJOR IN HOME ECONOMICS

(Non-Teaching)

A student with a second major or minor in another department may take the following courses for a First Major in Home Economics: HEC 203, 206, 215, 231, 301, 302, 303, 307, 308, 330, and 403 which will constitute a 37 hour major. This program may be modified, with the approval of the chairman of the Home Economics Department and the Dean of the College, to provide for an area major without right of teaching.

CURRICULUM FOR A MINOR IN HOME ECONOMICS

(Non-Teaching)

A student with a major and a minor in other departments may take the following courses for a minor in Home Economics: foods, 6 hours; clothing, 6 hours; house, 3 hours; family and child development, 3 hours.

HOME ECONOMICS (HEC)

HEC 203. (Formerly HEC 20.) Beginning Clothing Construction. (Formerly Garment Making.) **Three hours.** I, II.

Selection and fitting of commercial patterns to fit the individual. Development of construction techniques using various fabrics.

HEC 204. Introduction to Foods and Nutrition. **Three hours.** I, II.

Scientific principles and techniques in food preparation. Laboratory activities are planned to acquaint the student with nutritional needs and desirable products in each food group.

HEC 206. (Formerly HEC 23.) Intermediate Clothing Construction. (Formerly Dressmaking.) **Three hours.** I, II.

Prerequisite: HEC 203.

Advanced problems in clothing construction techniques as applied to silk and synthetics.

HEC 208. (Formerly Personal Relationships in Home and Community.) Family Living. **Three hours.** I, II.

The stages of development of the individual family members and of the family as a unit. The biological, cultural, and personal accomplishments (developmental tasks) of the family will be emphasized through the life cycle.

HEC 215. Food Management. **Three hours.** I, II.

Prerequisite: Hec 204 or its equivalent.

Food management, planning, preparation and service of meals through management of time, energy, money, and efficient use of equipment. Consideration is given to nutritional needs, food habits, and social customs of family groups.

HEC 219. Essentials of Nutrition. **Two hours.** I.

Basic nutrition and its application in meeting nutritional needs of all ages, consideration is given to food selection, family food budget, and food faddism and problems of "over" and "under" nutrition.

HEC 231. (Formerly Health 22 and 231.) Health and Home Care of the Sick. **Two hours.** I, II.

The health and the family and simple procedures for the care of patients in the home are stressed.

HEC 301. (Formerly HEC 30.) Household Equipment. **Three hours.** I.

Standards for selecting and buying household equipment and small appliances; electricity and gas in the home; maintenance and care of equipment.

HEC 302. Experimental Foods. **Three hours.** I, II.

Prerequisite: HEC 215; CHE 101 and 102, or its equivalent

Experimental procedures involving methods and techniques as to their effect on the quality of cooked products. Individual problems dealing with various aspects of food preparation.

HEC 303. Development of the Infant and Pre-school Child. **Three hours.** I, II.

Growth and development of the infant and pre-school child. Observation and participation experiences with children in nursery school and kindergarten.

HEC 304. (Formerly HEC 402.) Child Development and Adolescent Development. **Three hours.** A.

Prerequisite: PSY 211; EDU 317 or HEC 303.

Physical, mental, emotional, and social development of the child from school age through adolescence, and participation experiences with children.

HEC 305. (Formerly HEC 34.) Tailoring and Design. **Three hours.** II.

Prerequisite: HEC 203 and 206.

Tailoring techniques; the construction of a wool coat or suit, suited to the individual using a commercial pattern.

HEC 306. (Formerly Advanced Nutrition.) Principles of Nutrition. **Three hours.** I, II.

Prerequisite: BIO 310; CHE 102, HEC 204 and 215.

Principles of nutrition as they relate to energy metabolism, proteins, fats, minerals, and vitamins; the nutrition needs of healthy individuals under ordinary conditions in periods of physiological stress. Problems involving the use of animal-feeding experiments to emphasize principles of nutrition.

HEC 307. Marriage and Family. (Formerly The Family in the Home and Community.) **Three hours. I, II.**

Factors influencing marital adjustment and relationships and their implications for a successful life.

HEC 308. (Formerly HEC 37.) Textiles. (Formerly Advanced Textiles.) **Three hours. I.**

Fundamentals of textiles as related to the problems of the consumer.

HEC 310. Nutrition for the Elementary Teacher. **Two hours.** I, II.

Basic nutrition and ways of integrating it into the elementary school.

HEC 314. Summer Practicum. **Two hours.** A.

Eight weeks of student participation in an approved food service institution.

HEC 315. Quantity Food Purchasing and Production. **Three hours. II.**

Prerequisite: HEC 215, 301.

Principles and methods of the purchasing and preparation of food in quantity. Use of standardized formulas, calculation of costs and use of institutional equipment. Field trips included.

HEC 316. Food Service Administration. **Three hours.** II.

Prerequisite: HEC 301, 315; ACC 124.

Principles of food systems operation emphasizing financial and production controls, menu planning, technical operations with experience in residence hall, cafeterias, school lunch, hospitals and nursing homes.

HEC 317. Bio-Nutrition. **Three hours.** I.

Prerequisite: CHE 101, 102.

The study of the intermediary metabolism of carbohydrates, lipids and amino acids, and the relationships of inorganic and organic compounds in structures and regulatory functions.

HEC 318. Laboratory for Food Service Organization and Management. **Two hours.** II.

To be taken with Food Service Organization and Management. Experience under supervision in planning, preparing and serving food in an approved institution.

HEC 319. Food Service Organization and Management. **Three hours. II.**

Prerequisite: ACC 124; HEC 315.

Principles of organization and their application to various types of institutions, personnel management, financial and administrative problems.

HEC 322. (Formerly HEC 222.) Interior Decoration. **Three hours.** I, II.

Prerequisite: ART 117.

The history of interiors and furnishings; the visual elements and principles of design in relation to contemporary living; laboratory experiences.

HEC 330. Factors Affecting Home Management. **Three hours.** II.

Principles of management applied to indivilual and home situations; management of human material resources in the family; decision-making in regard to wise use of time, money, energy, abilities, and skills on the basis of family relations and optimum development of the individuals.

HEC 350. (Formerly HEC 250.) The House. **Three hours.** I, II.

Historic, aesthetic, social, economical, and functional aspects of housing; family housing as affected by legislation, life cycle, physical and psychological needs with application to modern housing; planning for and evaluating a home.

HEC 366. Methods of Teaching Home Economics. **Four hours.** II.
Prerequisite: EDU 202 and PSY 211.
The philosophy of home economics education; methods of teaching in-school and out-of-school groups; selection, development and use of instructional materials.

HEC 403. Home Management Residence. **Four hours.** I, II.
Prerequisite: HEC 302, 306, and 330.
Improvement of skills in the management of time, money, and energy; meal planning; food buying; preparation and serving of meals; cleaning; laundering; family relationships, etiquette, and hospitality are emphasized. Reservations for appointment to live in the Turley House should be made several weeks prior to the beginning of the semester.

HEC 410. Maternal and Child Nutrition. **Three hours.** II.
Prerequisite: HEC 303, 306.
Nutritional aspects of maternal and child growth through the adolescent years. Observation of children at mealtime is included.

HEC 413. Seminar in Nutrition. **One hour.** I, II.
(Junior standing)
Reports and discussions of current research in food service organization and management.

HEC 418. Seminar in Food Service Management. **One hour.** I, II.
(Junior standing)
Reports and discussions of current research in food service organization and management.

HEC 466. The Home Economics Curriculum. **Three hours.** I, II.
Prerequisite: Consent of instructor.
Current trends in organization and content of home economics programs for secondary school students, out-of-school youth, and adults; curriculum planning. Organization and administration of the department. Construction and use of evaluation instruments in home economics.

HEC 501. (Formerly HEC 401.) The Nursery School. **Three hours.** A.
The philosophy and objectives of the nursery school. This course is designed for those interested in directing public day care centers or private nursery schools, or those in college departments. Observation and participation experiences with children.

HEC 504. (Formerly HEC 404.) (Formerly HEC 338.) Current Trends in Child Development. **Three hours.** A.
Current concepts and trends in child development; includes recent research and literature in the area.

HEC 505. (Formerly HEC 405.) Seminar in Family Life. **Three hours.** A.
Prerequisite: HEC 307.
Students will be able to concentrate their interest in an intensive study of specific areas of family life. The main focus will be on the family and its interpersonal relationships. Group projects and study, panel discussions and conferences will be used in this course.

HEC 506. (Formerly HEC 406.) Nutrition in Health and Disease. (Formerly called Newer Knowledge of Nutrition.) **Three hours.** A.
Normal nutrition considered in relation to the deviation which occurs in those diseases commonly treated with diet. Independent survey of the technical literature in this field.

HEC 507. (Formerly HEC 407.) Organization and administration of the Nursery School. **Three hours.** A.
The history of nursery education and the organization and administration of housing, equipment, records, and parent cooperation. This course is designed for those interested in directing programs in public day care centers, private nursery schools, or those in college departments.

HEC 512. (Formerly HEC 312.) Creative Pattern Design. **Two hours. I.**
Prerequisite: HEC 203 and 206.

Principles of pattern making based on flat pattern methods; studio projects; original design with emphasis upon appropriate line, color, and texture for the individual executed by means of flat pattern methods. Course is designed to develop versatility in the use of commercial patterns and skills in fitting.

HEC 555. (Formerly called HEC 455.) Advanced Costume Design. **Three hours. II.**

Prerequisite: HEC 203 and 206; ART 117.

The application of art principles in color and line in the design and construction of garmets.

HEC 556a, b, c. (Formerly HEC 456a, b, c.) Special Problems in Home Economics. **One hour. A.**

The student chooses a problem and works under the supervision of the instructor in the field of the problem.

INDUSTRIAL EDUCATION (IED)

R. Whalin, Chairman; Brown, Botsford, Chastain, Craft, Davis, Lash, Leffard, Luy, Martin, Myers, Ogle, Patrick, Rowlett, Swinford.

The primary function of the Industrial Education Department is to prepare teachers of industrially oriented subjects for secondary and vocational-technical schools. Another function is to prepare personnel to staff the Manual Arts Therapy positions in the hospitals of the Veterans Administration.

The Industrial Arts Comprehensive Area Curriculum has as its purpose the preparation of general industrial arts teachers for schools offering broad diversified programs.

The Industrial Arts Specialized Area Curriculum has as its purpose the preparation of teachers for schools where technician-teachers are desired who possess greater depth in their respective areas.

The Associate of Arts Degree is awarded those who have completed the prescribed Vocational-Industrial and Technical Teacher Education Curriculum and 1,400 hours of approved and supervised related work experience or three years of approved related work experience. The purpose of this curriculum is to prepare teachers for the area vocational and technical schools of the state.

The Bachelor of Science Degree is awarded those who have completed the prescribed Vocational-Industrial and Technical Teacher Education Curriculum and 2,000 hours of approved and supervised work experience, or three years of approved related work experience. The purpose of this curriculum is to prepare teachers for the area vocational schools of the state.

The purpose of the first major in Industrial Education is to give the future industrial arts teacher an opportunty to prepare to teach in another subject matter field.

The Manual Arts Therapy Curriculum has as its purpose the preparation of therapists with a broad background in industrial education with emphasis on the crafts.

INDUSTRIAL EDUCATION

Industrial Arts Comprehensive Area Major

The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
EDU 317	4	IED 233	2
ENG 209 or 211	3	IED 326 or 467	3
IED 467 or 311	3	IED 343 or ENG 210 or 212	3
IED 372 or 351	3	IED 353 or 372	3
Social Science Elective	3	IED 382	3
	16		14

Fourth Year

Humanities Elective	3	EDU 462	4
BIO 403 or 404	3	EDU 463	10
General Education Science Elective or IED 343	3	IED 566	3
IED 394 or 326	3		
Social Science Elective	3		
	15		17

Industrial Education courses are to be elected to complete a total of 51 semester hours.

Curriculum for a First Major in Industrial Education

A student with a second major or minor in another department may complete the following courses for a first major in Industrial Education: Industrial Education 130, 141, 180, 233, 242, 281, 292, 351, 394, 566, and elective to total 36 hours.

INDUSTRIAL EDUCATION

Industrial Arts Specialized Area Major

The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
EDU 317	4	BIO 403 or 404	3
ENG 210 or 212	3	IED 353 or 351	3
IED 311	3	IED 372	3
IED 351 or 242	3	IED Elective* or 281	3
Social Science Elective	3	Social Science Elective	3
	16		15

Fourth Year

Humanities Elective	3	EDU 462	4
IED Elective* or IED Elective* & 353	10	EDU 463	10
IED 467	3	IED 566	3
	16		17

*To be elected from one major area.

A minimum of fifteen semester hours is required in one subject matter area in Industrial Education.

Industrial Education courses are to be elected to complete a total of 51 semester hours.

INDUSTRIAL EDUCATION

Manual Arts Therapy Major

The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
EDU 317	4	BIO 225	3
ENG 210 or 212	3	General Education Science Elective	3
IED 311 or 351	3	IED 328 or 311	3
IED 326 or 281	3	IED 394 or 326	3
Social Science Elective	3	Social Science Elective	3
	16		15

Fourth Year

Humanities Elective	3	EDU 462	4
IED 312 or 328	3	EDU 463	10
IED 372	3	IED 566	3
PHE 320	2		
PSY 308	3		
	14		17

*Selected with approval of advisor to meet general education requirements.

**Includes minimum of 240 hours clinical experience in Veterans Administration Hospital.

INDUSTRIAL EDUCATION

Vocational-Industrial and Technical Teacher Education Major

The first two years of this curriculum may be found in the Central University College section.

Option 1

Third Year

First Semester	Hours	Second Semester	Hours
ENG 210 or 212	3	**Humanities Elective	3
IED 263	2	*IED Elective	9
*IED Elective	9	PSY 402	3
PSY 211	3		
	17		15

Fourth Year

**Humanities Elective	3	*IED Elective	3
IED Elective	12	IED 364	3
		IED 463	10
	15		16

*Technical courses in Industrial Education as approved by advisor (18 semester hours maximum may be allowed by proficiency examination, 6 semester hours maximum may be allowed for supervised work experience.)

**From approved list.

Work Experience: A graduate of this approved program shall have a minimum of 2,000 clock hours of planned and supervised work experience in the occupation in which he plans to teach, or a minimum of three years of approved work experience in the occupation in which he plans to teach.

INDUSTRIAL EDUCATION

Vocational-Industrial and Technical Teacher Education Major

The first two years of this curriculum may be found in the Central University College section.

Option 2

Third Year

ENG 210 or 212	3	**Humanities Elective	3
IED 261	2	IED Elective	9
*IED Elective	6	PSY 402	3
PSY 211	3		
IED 263	2		
	16		15

Fourth Year

**Humanities Elective	3	*IED Elective	3
*IED Elective	12	IED 364	3
		IED 463	10
	15		16

*Technical courses in Industrial Education as approved by advisor (18 semester hours maximum may be allowed by proficiency examination, 6 semester hours maximum may be allowed for supervised work experience.)

**From approved list.

Work Experience: A graduate of this approved program shall have a minimum of 2,000 clock hours of planned and supervised work experience in the occupation in which he plans to teach, or a minimum of three years of approved work experience in the occupation in which he plans to teach.

INDUSTRIAL EDUCATION

Vocational-Industrial and Technical Teacher Education Major

Curriculum for an Associate of Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	GSE 102	3
GSS 142	3	GSC 176	3
*IED Elective	6	GSS 144	3
MAT 107 or IED 201	3	*IED Elective	6
MIL 101 (Men) or Elective (Women)	2	MIL 102 (Men) or Elective (Women)	2
	17		17

Second Year

GSC 170	3	1st Nine Weeks	
IED 261	2	IED 263	2
*IED Elective	3	*IED Elective	3
MIL 201 (Men) or Elective (Women)	2	**IED Elective	2
PSY 211	3	MIL 202 (Men) or Elective (Women)	2
Humanities Elective	3	2nd Nine Weeks	
		IED 364	3
		IED 463	4
	16		16

*Technical courses in Industrial Education as approved by advisor (nine semester hours maximum permitted through proficiency examination, three semester hours may be supervised work experience.)

**From approved list.

Work Experience: A graduate of this associate degree program must have a minimum of three years of approved occupational experience in the occupation in which he plans to teach or a minimum of 1,400 clock hours of planned and supervised occupational experience in the occupation in which he plans to teach.

INDUSTRIAL EDUCATION (IED)

IED 130. (Formerly Industrial Arts 130.) Design Orientation. **One hour.** I, II.
Introduction to design theory and practice. Emphasis on using contemporary tools, materials, and technical processes in solving design problems.

***IED 141.** (INT 141) (Formerly Industrial Arts 141.) Elementary Woodwork. **Three hours. I, II.**
Basic instruction in the use of common hand tools; basic machine operations; problems in wood construction; woodturning; related technical information; finishing and characteristics of common hard and soft woods.

IED 160. Technical Occupations-Orientation and Survey. **Three hours.** A.
General survey of technical occupations; development, function, skill requirements, training, and trends.

***IED 180** (INT 180) (Formerly Industrial Arts 180.) General Metalwork I. **Three hours.** I, II.
Basic hand and machine operations and related information in sheet metal, bench metal, art metal, arc and oxyacetylene welding; projects and problems in each area of activity.

***IED 191.** (INT 191) (Formerly Industrial Arts 13 and 191.) Technical Drawing I. **Three hours.** I, II.
Basic technical drawing involving sketching, lettering, orthographic projection, pictorial representation, drafting techniques, tracing, and reproduction of drawings.

***IED 201.** (INT 201) Applied Mathematics in Technology. **Three hours.** A.
Mathematics involving an intensive study of applied algebra, geometry, and trigonometry with emphasis on the application of mathematics in the solution of technical problems.

IED 204. Related Science, Mathematics, and Technology in Occupations. I. **Three hours.** A.
Offered only through written examination; applicant must be eligible for vocational teaching certificate.

IED 205. Manipulative Skills in Occupations. I. **Three hours.** A.
Offered only through technical competence examination; applicant must be eligible for vocational teaching certificate.

IED 206. Knowledge of Related Subjects in Occupations. I. **Three hours.** A.
Offered only through oral examination; applicant must be eligible for vocational teaching certificate.

IED 233. (Formerly Industrial Arts 15 and 233.) Industrial Arts Design. **Two hours.** I, II.
Prerequisite: IED 191.
Study and application of the principles of three-dimensional design related to various media; emphasis placed on experimentation and problem-solving in developing design solutions; design and construction of projects involving both hand and mass production processes.

IED 241. (Formerly Industrial Arts 241.) General Woodworking. **Two hours.** I.
Basic operations and information units in hand and machine woodwork; common woods; care and maintenance of tools; finishing of woods; joinery and construction problems. Emphasis on woodworking as an avocation.

*Credit is to be granted for only one of these cross-listed courses.

***IED 242.** (INT 242) (Formerly Industrial Arts 21 and 242.) Intermediate Woodwork. **Three hours.** A.
Prerequisite: IED 141.
Advanced woodworking operations; instruction in the operation of woodworking machines; care and sharpening of tools; related technical information; construction and finishing of projects.

IED 243. (Formerly Industrial Arts 243.) General Woodworking II. **Two hours.** II.
Additional operations in machine and hand woodwork; joinery; related information; construction problems; finishing techniques and maintenance of equipment. Emphasis on woodworking as an avocation.

IED 261. Principles of Vocational-Industrial and Technical Teaching. Two hours. A.
Designed to acquaint the student with the historical developments, principles and practices related to teaching vocational-industrial and technical subjects.

IED 263. Trade and Technical Occupational Analysis. **Two hours.** A.
Involves the fundamental steps for analyzing trade and technical occupations in order to establish appropriate units of instruction.

IED 264. Instructional Materials. **Two hours.** A.
Selection and arrangement of teaching content; preparation of assignment, operation and information sheets; preparation of evaluative instruments.

***IED 281.** (INT 281) (Formerly Industrial Arts 281.) General Metalwork II. **Three hours.** I, II.
Basic hand tool and machine operations; foundry; forging; heat treating; machine shop projects and problems; related information in each area of activity.

***IED 283.** (INT 283) (Formerly Industrial Arts 27 and 293.) Arc and Oxyacetylene Welding. **Three hours.** A.
Manipulative process and related information basic to successful arc, oxyacetylene, and tungsten inert gas welding; metallurgy of welding; physical testing of weldments.

***IED 292.** (INT 292) (Formerly Industrial Arts 20 and 292). Technical Drawing II. **Three hours.** I, II.
Prerequisite: IED 191.
Preparation of detail and assembly drawings; production illustrations; screw threads and fasteners; shop processes; dimetric projections; secondary auxiliaries; reproduction processes and materials.

***IED 293.** (INT 293) (Formerly Industrial Arts 23 and 293.) Technical Drawing III. **Three hours.** A.
Prerequisite: IED 191.
Advanced drafting techniques with special emphasis on map drafting and sheet metal layout.

IED 304. Related Science, Mathematics, and Technology in Occupations. II. **Three hours.** A.
Offered only through written examination; applicant must be eligible for vocational teaching certificate.

IED 305. Manipulative Skills in Occupations. II. **Three hours.** A.
Offered only through technical competence examination; applicant must be eligible for vocational teaching certficate.

IED 306. Knowledge of Related Subjects in Occupations. II. **Three hours.** A.
Offered only through oral examination; applicant must be eligible for vocational teaching certificate.

***IED 311.** (INT 311) (Formerly Industrial Arts 311.) Graphic Arts I. **Three hours.** I, II.
General graphic arts with emphasis on hand composition, elementary presswork, silkscreen principles, linoleum block printing, and bookbinding.

*Credit to be granted for only one of these cross-listed courses.

***IED 312.** (INT 312) (Formerly Industrial Arts 312.) Graphic Arts II. **Three hours.** I, II.
Prerequisite: IED 311.
Advanced graphic arts with emphasis on automatic machine printing; production techniques; photography; and offset lithography.

IED 322. (Formerly Industrial Arts 16, 222, and 322.) Industrial Arts for Elementary Teachers. **Three hours.** I, II.
Appropriate projects and media to provide enrichment for the elementary school subjects; instruction in the use of basic hand tools employed in the completion of correlated units of work.

IED 326. (Formerly Industrial Arts 29 and 326.) Crafts I. **Three hours.** A.
Introduction to various craft media; leather, art metal enameling; castolite; wood carving; the making of archery equipment; utilization of material applicable for playground use, community centers, and summer camps.

IED 328. (Formerly Industrial Arts 328.) Crafts II. **Three hours.** A.
Introduction to lapidary and jewelry work; cabochon cutting; grinding and polishing; faceting; design and construction of costume jewelry using silver, copper, and gold; centrifugal casting using the lost wax process.

IED 343. (Formerly Industrial Arts 31a and 343.) Advanced Woodwork I. **Three hours.** A.
Prerequisite: IED 242.
Additional practice in furniture construction involving skill in the use of machines and hand tools; joinery; bending and laminating wood; finishing; wood technology; maintenance of equipment.

IED 344. (Formerly Industrial Arts 33 and 344.) Wood Turning. **Three hours.** A.
Prerequisite: IED 242.
Common wood turning problems; sharpening tools; operations in spindle, chuck, and faceplate turning; finishing and polishing.

IED 345. (Formerly Industrial Arts 31b and 345.) Advanced Woodwork II. **Three hours.** A.
Prerequisite: IED 343.
Continuation of Industrial Education 343 with increased emphasis on craftsmanship; development of a high degree of skill in furniture construction and knowldege of related information.

***IED 351.** (INT 351) (Formerly Industrial Arts 351.) Fundamentals of Applied Electricity. **Three hours.** I, II.
Principles of static and current electricity; measures of electricity; heat, light, and power applied to the planning and construction of electrical installations.

***IED 352.** (INT 352) (Formerly Industrial Arts 352.) Electrical Power and Motor Repair. **Three hours.** A.
Prerequisite: IED 351.
Generation and distribution of electricity; power distribution systems; maintenance and repair of electrical motors.

***IED 353.** (INT 353) (Formerly Industrial Arts 353.) Introduction to Electronics. (Formerly called Introduction to Radio and Electronics.) **Three hours.** A.
Prerequisite: IED 351.
Fundamentals of vacuum tubes; semiconductor devices, AM radio receivers, and servicing techniques.

***IED 354.** (INT 354) (Formerly Industrial Arts 354.) Advanced Electronics. **Three hours.** A.
Prerequisite: IED 353.
Principles of superheterodyne receivers; frequency modulation; solid state devices; transmitters; electronics equipment servicing techniques.

*Credit to be granted for only one of these cross-listed courses.

IED 360. Principles of Vocational Guidance. **Three hours.** A. ✓

Methods and techniques involved in exploring, selecting, preparing for, entering upon, and succeeding in a vocation; designed for vocational teachers and administrators.

IED 363. Evaluation in Vocational and Technical Education. **Three hours.** A. ✓

Methods of evaluation; preparation of measuring devices; methods of assessing technical competency; interpretation of standardized test results; statistical analyses of test data and the improvement of instruction.

IED 364. Methods in Industrial Education. **Three hours.** A. ✓

Presentation and application of instructional materials, methods, techniques and devices relevant to teaching vocational-industrial and technical subjects.

IED 365. Philosophy of Vocational-Industrial and Technical Education. **Three hours.** A. ✓

Nature and purpose of the practical arts and vocational-industrial and technical education; their relationships and differences; the place of each in preparing people for the world of work.

IED 366. Instructional Aids in Vocational-Industrial and Technical Education. **Three hours.** A. ✓

Selection, development, analysis, cataloging, and use of commercial and self-made instructional materials suitable for vocational-industrial and technical education.

IED 367. Supervised Work Experience in Industry. **One to six hours.** A.

Supervised employment in industry. Assignments individually arranged by University coordinator and the cooperating industry. Written reports required.

IED 368. Workshop in Vocational-Industrial and Technical Education. **Two to six hours.** A. ✓

Laboratory approach which provides opportunities for experienced educational personnel to concentrate their study on practical problems in vocational-industrial and technical education.

***IED 372.** (INT 372) (Formerly Industrial Arts 372.) Power Mechanics I. **Three hours.** I, II.

Prerequisite: IED 351.

Principles of power sources and basic mechanisms; disassembly, inspection, measurement, adjustment, and tune-up of the two and four cycle small gasoline engine.

***IED 373.** (INT 373) (Formerly Industrial Arts 373.) Power Mechanics II. **Three hours.** A.

Prerequisite: IED 373.

Study of the multi-cylinder engine; fuels and fuel systems, lubrication, cooling, ignition, tests, tune-up, adjustment, and minor repair.

***IED 382.** (INT 382) (Formerly Industrial Arts 34 and 382.) Machine Shop Practice I. **Three hours.** A.

Prerequisite: IED 281.

Projects and problems involving machine operations on the lathe; bench work; blueprint reading; precision measurement; related technical information.

***IED 385.** (INT 385) (Formerly Industrial Arts 25 and 385.) Sheet Metalwork. **Three hours.** A.

Prerequisite: IED 180.

Care and use of common sheet metal tools and machines; lay-outs; templates; problems involving soldering, seaming, punching, riveting; forming; spot welding.

***IED 394.** (INT 394) (Formerly Industrial Arts 37 and 394.) Architectural Drawing I. (Formerly called Elementary Architectural Drawing.) **Three hours.** I, II.

Prerequisite: IED 191.

Basic principles of house planning; styles of home architecture; comparative study of building materials; preparation of a complete set of plans and specifications for a small home.

*Credit to be granted for only one of these cross-listed courses.

***IED 395.** (INT 395) (Formerly Industrial Arts 395.) Descriptive Geometry. **Three hours.** A.

Prerequisite: INT 191 or consent of instructor.

Application of the theory of orthographic projection to the graphical representation and solution of three-dimensional problems.

***IED 411.** (INT 411) (Formerly Industrial Arts 411.) Graphic Arts III. **Three hours.** A.

Prerequisite: IED 312.

Advanced photography; off-set lithography; graphic arts materials and processes; printing management; current trends in the graphic arts industry.

***IED 451.** (INT 451) Industrial Electronics I. **Three hours.** A.

Prerequisite: IED 353.

Principles of timing, control circuitry, transducers, polyphase system, and gaseous tubes as applied to industrial and commercial installations.

***IED 452.** (INT 452) Industrial Electronics II. **Three hours.** A.

Prerequisite: IED 451.

Applications of industrial control circuitry; generation of electricity; power distribution systems; maintenance and repair of electrical devices.

***IED 454.** (INT 454) (Formerly Industrial Arts 454.) Communications Electronics I. (Formerly called Advanced Radio and Electronics I.) **Three hours.** A.

Prerequisite: IED 353.

Advanced radio communication receiving principles; quality audio re-producing devices; transmitter procedures; transmitting antennas; communications systems; and electronics servicing techniques.

***IED 455.** (INT 455) (Formerly Industrial Arts 455.) Communications Electronics II. (Formerly called Principles of Television.) **Three hours.** A.

Prerequisite: IED 454.

Principles of television; antenna theory and installation; closed circuit television operation; and television servicing techniques.

IED 460. Seminar in Vocational-Industrial and Technical Education. **Three hours.** A.

Individual and group investigations of current problems and issues in the field of vocational-industrial and technical education. Each student will be expected to plan and complete a minor research project and present his findings to the seminar.

IED 463. Supervised Student Teaching in Vocational-Industrial and Technical Education. **Four to ten hours.** A.

Observation, participation, and supervised teaching in vocational-industrial and technical education. Includes experiences in lesson planning, classroom management, record keeping, development and use of instructional materials, and directed teaching in approved centers.

IED 467. (Formerly Industrial Arts 467.) Problems and Practices of the General Shop. **Three hours.** A.

Planning and organization of physical laboratory facilities with emphasis on the comprehensive general shop and the general unit shop. Preparation of instructional materials; instructional techniques; development and use of visual aids.

***IED 471.** (INT 471) Power Transmission. **Three hours.** A.

Prerequisite: IED 373.

Principles of mechanical, electrical and fluid power transmission. Disassembly, inspection, and adjustment of mechanical transmission units; construction of fluid power circuits emphasizing their application to modern machines.

***IED 472.** (INT 472) Chassis and Electrical Systems. **Three hours.** A.

Prerequisite: IED 373.

Detailed study and application of starting, charging, lighting, and accessory circuits; suspension, brakes, power brakes, steering, power steering, air conditioning.

*Credit to be granted for only one of these cross-listed courses.

***IED 487.** (INT 487) (Formerly Industrial Arts 44 and 487.) Machine Tool Processes II. **Three hours.** A.

Prerequisite: IED 382.

Continuation of IED 382 with increased emphasis on machine tool operations; gear cutting; tool and cutter grinding; problems in tool making; related technical information.

***IED 488.** (INT 488) (Formerly Industrial Arts 45 and 488.) Machine Tool Processes III. **Three hours.** A.

Prerequisite: IED 487.

Advanced machine tool operations and tool making; heat treating of metals; related technical studies and metrology.

***IED 489.** (INT 489) (Formerly Industrial Arts 489.) Characteristics and Maintenance of Machine Tools. **Two hours.** A.

Prerequisite: IED 487.

Machine design and construction; installing; servicing; powering and rebuilding machine tools.

***IED 492.** (INT 492) (Formerly Industrial Arts 492.) Technical Drawing IV. **Three hours.** A.

Prerequisite: IED 292.

Advanced machine drafting dealing with detail and assembly drawings, patent drawing, production illustrations, and tool design.

***IED 496.** (INT 496) (Formerly Industrial Arts 47 and 496.) Architectural Drawing II. **Three hours.** A.

Prerequisite: IED 394.

Preparation of complete plans and specifications for small commercial and large residential buildings; emphasis on modern methods and materials utilized in the building industry; illustrative rendering; structural modeling.

***IED 501.** (INT 501) (Formerly Industrial Arts 401.) Special Problems in Industrial Education. (Formerly called Special Problems in Industrial Arts.) **Three hours.** I, II.

A course for exceptional undergraduates involving independent study and research related to problems of a theoretical and/or practical nature.

***IED 502.** (INT 502) Industrial Materials and Processes. **Three hours.** A.

Characteristics, utilization and processing of industrial materials such as wood, metals, plastics, clay, glass, concrete, etc.; composition and working qualities; types, grades, availability, and suitability of materials for varying purposes; shaping, forming, cutting, and finishing processes; quality, prices and control of materials and products.

***IED 511.** (INT 511) (Formerly called Graphic Arts III.) Advanced Technical Problems in Graphic Arts. **Two-six hours.** I, II.

Technical instruction in the graphic arts field. Recent developments, advanced technical and experimental problems and preparation of technical reports in graphic arts.

***IED 512.** (INT 512) Photography I. **Three hours.** A.

Picture composition, film developing, printing, enlarging, dodging, contact printing, photofinishing; study of and care for equipment and materials; visual instruction; planning of facilities. (Each student required to provide camera.)

***IED 533.** (INT 533) (Formerly Industrial Arts 433.) Workshop in Industrial Education. (Formerly called Workshop in Industrial Arts.) **Four hours.** A.

533a Design; 533b Graphic Arts; 533c Plastics; 533d Power Mechanics; 533e Electronics; 533f Wood Technology; 533g Metals; 533h Crafts; 533i Professional. (Formerly Industrial Arts 433a, 433b, 433c, 433d, 433e, 433f, 433g, 433h, 433i.)

*Credit to be granted for only one of these cross-listed courses.

***IED 541.** (INT 451) Advanced Technical Problems in Woodworking. **Two-six hours.** I, II.

Technical instruction in the woodworking field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in woodworking.

IED 544. (Formerly Industrial Arts 41 and 444.) Machine Woodworking. **Two hours.** A.

Prerequisite: IED 242.

Special machine operations; repairing and servicing power woodworking machinery.

***IED 551.** (INT 551) Advanced Technical Problems in Electricity-Electronics. **Two-six hours.** I, II.

Technical instruction in the electricity-electronics field; recent developments, advanced technical and experimental problems, and preparation of technical reports in electricity-electronics.

***IED 561.** (INT 561) Evaluation in Technical Education. **Three hours.** A.

Methods of evaluation in technical education; elementary statistical procedures; preparation and use of measuring devices; assessing technical competency, creativeness, quality, and quantity; analysis and interpretation of test results.

IED 563. Planning of Technical Education Facilities. **Two hours.** A.

Principles and practices underlying the planning and designing of shops and laboratories for vocational, industrial, and technical education.

IED 564. (Formerly Industrial Arts 42 and 464.) History and Philosophy of Industrial Education. **Three hours.** A.

History of industrial education from its early beginning to the present; the contributions of leaders; movements in the development of industrial and vocational education; modern concepts of industrial education.

IED 566. (Formerly Industrial Arts 46 and 466.) Teaching of Industrial Arts. **Three hours.** I, II.

Function and objectives of industrial arts; the industrial arts curriculum; methods of presentation; planning, equipping and organizing the laboratory; instructional materials; evaluation of student achievement.

***IED 571.** (INT 571) Advanced Technical Problems in Power Mechanics. **Two-six hours.** I, II.

Technical instruction in the power mechanics field; recent developments; advanced technical and experimental problems, and preparation of technical reports in power mechanics.

***IED 581.** (INT 581) Advanced Technical Problems in Metalworking. **Two-six hours.** I, II.

Technical instruction in the metalworking field; recent developments, advanced technical and experimental problems, and preparation of technical reports in metalworking.

***IED 591.** (INT 591) Advanced Technical Problems in Drafting. **Two-six hours.** I, II.

Technical instruction in the drafting field; recent developments, advanced technical and experimental problems, and preparation of technical reports in drafting.

GRADUATE COURSES

***IED 633.** (INT 633) Creative Problem Solving in Technical Fields. **Three hours.** A.

A review and analysis of basic and applied research in the development of creative behavior with emphasis on its application to industrial teaching and industrial problem solving.

*Credit is to be granted for only one of these cross-listed courses.

IED 661. Supervision in Technical Education. **Three hours.** A.
Principles, objectives, methods, techniques, and practices of supervision; specific problems in the supervisor of technical education; selecting and organizing materials; planning and equipping education facilities; professional relations and in-service education.

IED 662. (Formerly Industrial Arts 562.) Philosophy of the Practical Arts and Vocational Education. **Three hours.** II.
Background, purpose and philosophies of the practical arts and vocational education; relationship to general education; legislation for the practical arts.

IED 663. Organization and Administration of Technical Education. **Three hours.** A.
Organization of industrial education on the local, state, and national level; federal legislation in technical education; federal-state relationship; types of technical, vocational, and general industrial education programs and schools.

IED 664. (Formerly Industrial Arts 564.) Special Problems in Industrial Education. (Formerly called Special Problems in Industrial Arts.) **One-six hours,** I, II.
Problems of particular value to the teacher in the field, both of a practical and of a research nature, will be pursued by the student and developed through conferences and activities directed by the staff.

IED 665. (Formerly Industrial Arts 565.) Curriculum Practices and Trends in Industrial Education. (Formerly Curriculum Practices and Trends in Industrial Arts.) **Three hours.** I.
Current concepts and trends in industrial education; principles underlying curriculum construction and development; long range planning for improvement of programs.

IED 666 (Formerly Industrial Arts 566.) Seminar in Industrial Education. (Formerly Seminar in Industrial Arts.) **Three hours.** I.
A course for the graduate student in industrial education. Current problems and issues in the total field of industrial education will be studied with an emphasis placed on identifying their philosophical and/or psychological dimensions. Research techniques appropriate for industrial education with an emphasis on experimental design and statistical procedures of analysis. Each student will be expected to plan and complete a minor research paper, and to present his findings to the seminar.

IED 667. (Formerly Industrial Arts 567.) Thesis Research in Industrial Education. (Formberly Thesis Research in Industrial Arts.) **Six hours.** I, II.
Students preparing thesis are expected to register for three hours of thesis research in each two semesters.

IED 668. (Formerly Industrial Arts 568.) Advanced Design. **Three hours.** II.
Advanced course in design emphasizing problem-solving and experimentation with industrial media.

INDUSTRIAL TECHNOLOGY (INT)

W. Sexton, Chairman; Clark, Gilliland, Torbett, Way.

The primary function of the Industrial Technology Department is to prepare persons for entrance into technical occupations. Curricula are designed for those who do not wish to teach, but who desire to secure gainful employment in industry.

The Industrial Technology Curriculum combines a broad and balanced technical program with a sound foundation in mathematics, natural sciences, business organization and management, humanities, social sciences, and communications in order to prepare the individual to cope with a wide range of industrial problems.

A first major, second major, or minor in Industrial Technology enables an individual to complement specialized technical preparation in a specific subject matter area with extensive preparation in business organization and management, mathematics, or the sciences.

The two-year curricula, leading to an Associate of Arts Degree, are designed for students who wish to prepare for gainful employment in certain industrial occupational areas in less than four years. Emphasis in each curriculum is placed on specialized technical preparation. Courses included in each program may be later credited toward a Bachelor of Science Degree.

INDUSTRIAL TECHNOLOGY CURRICULUM

The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
ECO 230	3	ENG 210 or 212	3
ENG 209 or 211	3	*Humanities Elective	3
*INT Elective	6	*INT 141 or General Elective	3
PHY 132	5	INT 372	3
		*INT Elective	6
	17		18

Fourth Year

BIO 403 or 404	3	*General Elective	8-11
*General Elective	4-6	*INT Elective	6
*INT Elective	6		
	13-15		14-17

*A minimum of thirty-one hours must be selected from Upper Division Courses.

INT electives should be selected so that at least thirty semester hours will be divided between two of the following departmental areas: architectural drawing, technical drawing, communications electronics, industrial electronics, graphic arts, and metals.

Curriculum for a First Major in Industrial Technology*

A student with a second major or a minor in another field may take the following courses for a first major in Industrial Technology: INT 191, 311, 351, 372, plus the required courses in one area of specialization as follows:

Drafting with emphasis in:

Technical Drawing: INT 205, 281, 292, 395, 492, 591 (3 hours).

Architectural Drawing: AGR 262; INT 205, 292, 293, 394, 395, 496.

Electricity-Electronics with emphasis in:

Communications: INT 180, 353, 454, 455, 551 (6 hours).

Industrial Electronics: INT 180, 352, 353, 451, 452, 551 (3 hours).

Metals: INT 281, 283, 292, 382, 487, 488.

Graphic Arts: INT 180, 205, 312, 411, 511 (6 hours).

*Students planning to follow this curriculum should consult with the head of the Industrial Technology Department.

Curriculum for a Second Major or Minor in Industrial Technology*

A student with a first major or minor in another field may take the following courses for a second major or minor in Industrial Technology:

With emphasis in Technical Drawing:
INT 191, 205, 281, 292, 293, 395, 492, 591 (3 hours).

With emphasis in Architectural Drawing:
AGR 262; INT 191, 205, 292, 293, 394, 395, 496, 591 (3 hours).

With emphasis in Communications Electronics:
INT 180, 191, 351, 353, 454, 455, 551 (6 hours).

With emphasis in Industrial Electronics:
INT 180, 191, 351, 352, 353, 451, 452, 472.

With emphasis in Metals:
INT 191, 281, 283, 292, 351, 382, 487, 488.

With emphasis in Graphic Arts:
INT 191, 205, 311, 312, 351, 411, 511 (6 hours).

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*Students planning to follow this curriculum should consult with the head of the Industrial Technology Department.

INDUSTRIAL TECHNOLOGY
DRAFTING AND DESIGN TECHNOLOGY

Curriculum with a major in Drafting and Design Technology leading to an Associate of Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
INT 105	1	INT 106	1
INT 191	3	INT 292	3
INT 201 or elective	3	INT 294	3
INT 281	3	MAT 109	5
MIL 101	2	MIL 102	2
	16		18

Second Year

ART 117	3	ECO 230	3
GBU 101	3	General elective	3
INT 395	3	INT 205	3
MIL 201	2	INT 293	3
PHY 131	5	MIL 202	2
	16		14

DRAFTING TECHNOLOGY

Curriculum with a major in Drafting Technology leading to an Associate or Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
GSC 176	3	GSC 170	3
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
INT 105	1	INT 106	1
INT 191	3	INT 292	3
INT 281	3	INT 294	3
MIL 101	2	MIL 102	2
	16		16

Second Year

ART 117	3	ECO 230	3
GBU 101	3	General elective	3
GSS 142	3	GSS 144	3
INT 201	3	INT 293	3
INT 395	3	INT 205	3
MIL 201	2	MIL 202	2
	17		17

ELECTRONICS TECHNOLOGY

Curriculum with a major in Electronics Technology leading to an Associate of Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	GSE 102	3
GSP 180	1	GSP 181	1
INT 105	1	INT 106	1
INT 151	3	INT 252	3
INT 191	3	INT 253	3
INT 201 or elective	3	MAT 109	5
MIL 101	2	MIL 102	2
	16		18

Second Year

GBU 101	3	ECO 230	3
General elective	3	GBU 171	3
INT 354	3	INT 355	5
MIL 201	2	INT 372	3
PHY 131	5	MIL 202	2
	16		16

APPLIED ELECTRONICS TECHNOLOGY

Curriculum with a major in Applied Electronics Technology leading to an Associate of Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
GSC 176	3	GSE 102	3
GSE 101	3	GSP 181	1
GSP 180	1	INT 106	1
INT 105	1	INT 201	3
INT 151	3	INT 252	3
INT 191	3	INT 253	3
MIL 101	2	MIL 102	2
	16		16

Second Year

ECO 230	3	GBU 171	3
General elective	3	GSS 144	3
GSC 170	3	INT 355	5
GSS 142	3	INT 372	3
INT 354	3	MIL 202	2
MIL 201	2		
	17		16

PRINTING TECHNOLOGY

Curriculum with a major in Printing Technology leading to an Associate of Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
GSC 170	3	GSE 102	3
GSE 101	3	GSP 181	1
GSP 180	1	GSS 142	3
INT 105	1	INT 106	1
INT 191	3	INT 201	3
INT 211	3	INT 212	3
MIL 101	2	MIL 102	2
	16		16

Second Year

GBU 101	3	General elective	3
GSS 144	3	INT 214	3
INT 213	3	INT 215	3
INT 216	5	INT 317	5
MIL 201	2	MIL 202	2
	16		16

INDUSTRIAL TECHNOLOGY (INT)

INT 105. Industrial Orientation I. **One hour.** I.

The evolution of American industry; contemporary industrial organization; wage systems; organized labor and labor-management relationships; impact of automation on industrial operations; current information regarding technical occupations; field trips to selected industrial firms.

INT 106. Industrial Orientation II. **One hour.** II.

A continuation of Industrial Technology 105 with emphasis placed on introductory topics related to plant layout, materials handling, methods improvement, motion and time study, work sampling techniques, work simplification, inspection and quality control, and production control; solution of selected problems; in-plant observation.

*INT 141. (IED 141.) (Formerly Industrial Arts 141.) Elementary Woodwork. **Three hours.** I, II.

Basic instruction in the use of common hand tools; elementary machine operations; problems in wood construction; woodturning; related technical information; finishing and characteristics of common hard and soft woods.

INT 151. (Formerly Industrial Arts 151.) Electrical Principles I. **Three hours.** A.

Principles of electrostatics and current flow; production of heat, light, and power; electrical energy measurement.

*INT 180. (IED 180.) (Formerly Industrial Arts 180.) General Metalwork I. **Three hours.** I, II.

Basic hand and machine operations and related information in sheet metal, bench metal, art metal, arc and oxyacetylene welding; projects and problems in each area of activity.

*INT 191. (IED 191.) (Formerly Industrial Arts 13 anl 191.) Technical Drawing I. **Three hours.** I, II.

Basic technical drawing involving sketching, lettering, orthographic projection, pictorial representation, drafting techniques, tracing and reproduction of drawings.

*INT 201. (IED 201.) Applied Mathematics in Technology. **Three hours.** A.

Mathematics involving an intensive study of applied algebra, geometry, and trigonometry with emphasis on the application of mathematics in the solution of technical problems.

INT 205. Industrial Illustration I. **Three hours.** A.

Prerequisite: INT 191 or consent of instructor.

Axonometric projection — isometric, dimetric and trimetric; oblique, pseudo representations and perspectives; commercial and technical illustration including airbrush, pencil rendering, ink delineations and other methods.

INT 211. (Formerly Industrial Arts 211.) Introduction to Graphic Arts. **Three hours.** A.

Graphic arts materials and manipulative processes; hand composition; elementary letterpress work; silkscreen principles; linoleum block printing; bookbinding.

INT 212. (Formerly Industrial Arts 212.) Advanced Graphic Arts. **Three hours.** A.

Prerequisite: INT 211.

Basic automatic letterpress procedure and operations; introduction to offset lithography processes; begining offset process-camera and offset press operations; basic photography; introduction to color process printing.

INT 213. (Formerly Industrial Arts 213.) Advanced Photography and Offset Lithography. **Three hours.** A.

Prerequisite: INT 212.

Advanced photography and offset lithography; advanced study of graphic arts materials and processes; current trends in graphic arts.

*Credit is to be granted for only one of these cross-listed courses.

INT 214. (Formerly Industrial Arts 214.) Quality Control and In-Plant Organization. **Three hours.** A.
Prerequisite: INT 213.
Experience and study in the quality control of printing materials; introduction to the organization of plant facilities and production printing processes.

INT 215. (Formerly Industrial Arts 215.) Printing Management. **Three hours.** A.
Production management; salesmanship; advertising; estimating; purchasing; public relations, labor and management relations.

INT 216. (Formerly Industrial Arts 216.) Production Printing I. **Five hours.** A.
Basic printing experiences gained through work in the college print shop or in commercial printing establishments.

***INT 242.** (IED 242.) (Formerly Industrial Arts 21 and 242.) Intermediate Woodwork. **Three hours.** A.
Prerequisite: INT 141.
Advanced woodworking operations; instruction in the operation of woodworking machines; care and sharpening of tools; related technical information; construction and finishing of projects.

INT 252. (Formerly Industrial Arts 252.) Industrial Electricity. **Three hours.** A.
Power generation and distribution; motor control and repair; relay and solenoid application.

INT 253. (Formerly Industrial Arts 253.) Electronics I. **Three hours.** A.
Prerequisite: INT 252.
Electronic circuit theory and design; introduction to radio, amplifiers, power supplies, and high fidelity.

***INT 281.** (IED 281.) (Formerly Industrial Arts 281.) General Metalwork II. **Three hours.** I, II.
Basic hand tool and machine operations; foundry; forging; heat treating; machine shop projects and problems; related information in each area of activity.

***INT 283.** (IED 283.) (Formerly Industrial Arts 27 and 283.) Arc and Oxyacetylene Welding. **Three hours.** A.
Manipulative processes and related information basic to successful arc, oxyacetylene, and tungsten inert gas welding; metallurgy of welding; physical testing of weldments.

***INT 292.** (IED 292.) (Formerly Industrial Arts 20 and 292.) Technical Drawing II. **Three hours.** I, II.
Prerequisite: INT 191.
Preparation of detail and assembly drawings; production illustrations; screw threads and fasteners; shop processes; dimetric projections; secondary auxiliaries; reproduction processes and materials.

***INT 293.** (IED 293.) (Formerly Industrial Arts 23 and 293.) Technical Drawing III. **Three hours.** A.
Prerequisite: INT 191.
Advanced drafting techniques with special emphasis on map drafting and sheet metal layout.

INT 294. (Formerly Industrial Arts 28 and 294. House Planning. **Three hours.** A.
Prerequisite: INT 191.
Planning a residence including site selection, floor plans, elevations, details, and specifications; orders of architecture; common styles of homes; interior features; building materials.

INT 295. (Formerly Industrial Arts 295.) Machine Drafting. **Three hours.** A.
Prerequisite: INT 292.
Development of skills and procedures through the solution of industrial drafting problems. Problem areas include pictorial and multiview drawings of machine assemblies, cams and gears, transmission of motion in mechanisms.

*Credit is to be granted for only one of these cross-listed courses.

INT 296. (Formerly Industrial Arts 296.) Architectural Drafting. **Three hours.** A.
Prerequisite: INT 294.

Preparation of sketches and working drawings for residential and commercial building; plans for electrification, plumbing, and heating; building codes and FHA standards.

***INT 311.** (IED 311.) (Formerly Industrial Arts 311.) Graphic Arts I. **Three hours.** I, II.

General graphic arts with emphasis on hand composition, elementary presswork, silkscreen principles, linoleum block printing, and bookbinding.

***INT 312.** (IED 312.) (Formerly Industrial Arts 312.) Graphic Arts II. **Three hours.** I, II.
Prerequisite: INT 311.

Advanced graphic arts with emphasis on automatic machine printing; production techniques; photography; and offset lithography.

INT 317. (Formerly Industrial Arts 317.) Production Printing II. **Five hours.** A.
Prerequisite: INT 312.

Advanced printing experiences acquired through work in the university print shop or in commercial printing establishments.

***INT 351.** (IED 351.) (Formerly Industrial Arts 351.) Fundamentals of Applied Electricity. **Three hours.** I, II.

Principles of static and current electricity; measures of electricity; heat, light, and power applied to the planning and construction of electrical installations.

***INT 352.** (IED 352.) (Formerly Industrial Arts 352.) Electrical Power and Motor Repair. **Three hours.** A.
Prerequisite: INT 351.

Generation and distribution of electricity; power distribution systems; maintenance and repair of electrical power.

***INT 353.** (IED 353.) (Formerly Industrial Arts 353.) (Formerly called Introduction to Radio and Electronics) Introduction to Electronics. **Three hours.** A.
Prerequisite: INT 351.

Fundamentals of vacuum tubes; semiconductor devices; AM radio receivers and servicing techniques.

***INT 354.** (IED 354.) (Formerly Industrial Arts 354.) Advanced Electronics. **Three hours.** A.
Prerequisite: INT 353.

Principles of superheterodyne receivers; frequency modulation; solid state devices; transmitters; electronic equipment servicing techniques.

INT 355. (Formerly Industrial Arts 355.) Applied Electronics. **Five hours.** A.
Prerequisite: INT 354.

Laboratory experiences in circuit design, circuit tracing, and the repair and operation of modern electronic equipment; individual problems in building experimental circuits and servicing of defective equipment.

***INT 372.** (IED 372.) (Formerly Industrial Arts 372.) Power Mechanics I. **Three hours.** I, II.
Prerequisite: INT 351 or consent of instructor.

Principles of power sources and basic mechanisms; disassembly, inpection, measurement, adjustment, and tune-up of the two and four-cycle small gasoline engine.

***INT 373.** (IED 373.) (Formerly Industrial Arts 373.) Power Mechanics II. **Three hours.** A.
Prerequisite: INT 372.

Study of the multi-cylinder engine; fuels and fuel systems; lubrication, cooling, ignition, tests, tune-up, adjustment and minor repair.

***INT 382.** (IED 382.) (Formerly Industrial Arts 34 and 382.) Machine Shop Practice I. **Three hours.** A.
Prerequisite: INT 281.

Projects and problems involving machine operations on the lathe; bench work; blueprint reading; precision measurement; related technical information.

*Credit is to be granted for only one of these cross-listed courses.

***INT 385.** (IED 385.) (Formerly Industrial Arts 25 and 385.) Sheet Metalwork. **Three hours.** A.

Prerequisite: INT 180.

Care and use of common sheet metal tools and machines; lay-outs; templates; problems involving soldering, seaming, punching, riveting, forming, and spot welding.

***INT 394.** (IED 394.) (Formerly Industrial Arts 37 and 394.) (Formerly called Elementary Architectural Drawing) Architectural Drawing I. **Three hours.** I, II.

Prerequisite: INT 191.

Basic principles of house planning; styles of home architecture; comparative study of building materials; the preparation of a complete set of plans and specifications for a small home.

***INT 395.** (IED 395.) (Formerly Industrial Arts 395.) Descriptive Geometry. **Three hours.** A.

Prerequisite: INT 191 or consent of instructor.

Application of the theory of orthographic projection to the graphical representation and solution of three-dimensional problems.

***INT 411.** (IED 411.) (Formerly Industrial Arts 411.) Graphic Arts III. **Three hours.** A.

Prerequisite: INT 312.

Advanced photography; offset lithography; graphic arts materials and processes; printing management; current trends in the graphic arts industry.

***INT 451.** (IED 451.) Industrial Electronics I. **Three hours.** A.

Prerequisite: INT 353.

Principles of timing, control circuitry, transducers, polyphase systems, and gaseous tubes as applied to industrial and commercial installations.

***INT 452.** (IED 452.) Industrial Electronics II. **Three hours.** A.

Prerequisite: INT 451.

Applications of industrial control circultry; generation of electricity; power distribution systems; maintenance and repair of electrical devices.

***INT 454.** (IED 454.) (Formerly Industrial Arts 454.) (Formerly called Advanced Radio and Electronics I) Communications Electronics I. **Three hours.** A.

Prerequisite: INT 353.

Advanced radio communication receiving principles; quality audio reproducing devices; transmitter procedures; transmitting antennas; communications systems and electronics servicing techniques.

***INT 455.** (IED 455.) (Formerly Industrial Arts 455.) (Formerly called Principles of Television.) Communications Electronics II. **Three hours.** A.

Prerequisite: INT 454.

Principles of television; antenna theory and installation; closed circuit television operation; television servicing techniques.

***INT 471.** (IED 471.) Power Transmission. **Three hours.** A.

Prerequisite: INT 373.

Principles of mechanical, electrical and fluid power transmission. Disassembly, inspection, and adjustment of mechanical transmission units; construction of fluid power circuits emphasizing their application to modern machines.

***INT 472.** (IED 472.) Chassis and Electrical Systems. **Three hours.** A.

Prerequisite: INT 373.

Detailed study and application of starting, charging, lighting, and accessory circuits; suspension, brakes, power brakes, steering, power steering, air conditioning.

***INT 487.** (IED 487) Formerly Industrial Arts 44 and 487.) Machine Tool Processes II. **Three hours.** A.

Prerequisite: INT 382.

Continuation of Industrial Technology 382 with increased emphasis on machine tool operations; gear cutting; tool and cutter grinding; problems in tool making; related technical information.

*Credit is to be granted for only one of these cross-listed courses.

*INT 488. (IED 488.) (Formerly Industrial Arts 45 and 488.) Machine Tool Processes III. **Three hours.** A.

Prerequisite: INT 487.

Advanced machine tool operations and tool making; heat treating of metals; related technical studies and metrology.

*INT 489. (IED 489.) (Formerly Industrial Arts 489.) Characteristics and Maintenance of Machine Tools. **Two hours.** A.

Prerequisite: INT 487.

Machine design and construction; installing, servicing, powering and rebuilding machine tools.

*INT 492. (IED 492.) (Formerly Industrial Arts 492.) Technical Drawing IV. **Three hours.** A.

Prerequisite: INT 292.

Advanced machine drafting dealing with detail and assembly drawing, patent drawing, production illustrations, and tool design.

*INT 496. (IED 496.) (Formerly Industrial Arts 47 and 496.) (Formerly called Advanced Architectural Drawing) Architectural Drawing II. **Three hours.** A.

Prerequisite: INT 394.

Preparation of complete plans and specifications for small commercial and large residential buildings; emphasis on modern methods and materials utilized in the building industry; illustrative rendering; structural modeling.

*INT 501. (IED 501.) (Formerly Industrial Arts 401.) (Formerly called Special Problems in Industrial Arts.) Special Problems in Industrial Technology. **Three hours.** I, II.

A course for exceptional undergraduates involving independent study and research related to problems of a theoretical and/or practical nature.

*INT 502. (IED 502) Industrial Materials and Processes. **Three hours.** A.

Characteristics, utilization and processing of industrial materials such as wood, metals, plastics, clay, glass, concrete, etc.; composition and working qualities; types, grades, availability, and suitability of materials for varying purposes; shaping, forming, cutting, and finishing processes; quality, prices and control of materials and products.

*INT 511. (IED 511.) Advanced Technical Problems in Graphic Arts. **Two-Six hours.** I, II.

Technical instruction in the graphic arts field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in graphic arts.

*INT 512. (IED 512.) Photography I. **Three hours.** A.

Picture composition, film developing, printing, enlarging, dodging, contact printing, photo finishing; study of and care for equipment and materials; visual instruction; planning of facilities. (Each student required to provide camera.)

*INT 533. (IED 533.) (Formerly Industrial Arts 433.) (Formerly called Workshop in Industrial Arts) Workshop in Industrial Technology. **Four hours.** A.

533b Graphic Arts; 533c Plastics; 533d Power Mechanics; 533e Electronics; 533g Metals. (Formerly 433b, 433c, 433d, 433e, 433g.)

*INT 541. (IED 541.) Advanced Technical Problems in Woodworking. **Two-Six hours.** I, II.

Technical instruction in the woodworking field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in woodworking.

*INT 551. (IED 551.) Advanced Technical Problems in Electricity-Electronics. **Two-Six hours.** I, II.

Technical instruction in the electricity-electronics field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in electricity-electronics.

*Credit is to be granted for only one of these cross-listed courses.

***INT 561.** (IED 561) Evaluation in Technical Education. **Three hours.** A.
Methods of evaluation in technical education; elementary statistical procedures; preparation and use of measuring devices; assessing technical competency, creativeness, quality, and quantity; analysis and interpretation of test results.

***INT 571.** (IED 571.) Advanced Technical Problems in Power Mechanics. **Two-Six hours.** I, II.
Technical instruction in the power mechanics field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in power mechanics.

***INT 581.** (IED 581.) Advanced Technical Problems in Metalworking. **Two-Six hours.** I, II.
Technical instruction in the metalworking field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in metalworking.

***INT 591.** (IED 591.) Advanced Technical Problems in Drafting. **Two-Six hours.** I, II.
Technical instruction in the drafting field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in drafting.

GRADUATE COURSES

***INT 633.** (IED 633.) Creative Problem Solving in Technical Fields. **Three hours.** A.
A review and analysis of basic and applied research in the development of creative behavior with emphasis on its application to industrial teaching and industrial problem solving.

LAW ENFORCEMENT (LEN)

R. W. Posey, Director; Bowman, Brown, Deese, Scott.
Lecturers: Chenault, Stone, Watson.

The responsibility of the School of Law Enforcement is to prepare students for careers in police work. The curricula present subjects in organization, supervision, operations, and techniques. Enforcement, utilizing both repressive and preventative approaches, as well as investigative techniques with laboratory participation is treated. The student may expect to acquire a foundation in police history, philosophy, and trends.

The curricula provide areas of concentration at the Associate of Arts Degree level in: Law Enforcement, Juvenile, Corrections and Industrial Security. The Bachelor of Science Degree is also offered in Law Enforcement.

Students completing this program should expect employment in state police organizations, federal law enforcement agencies, county police agencies, city police agencies, various investigative agencies, corrections and social work.

Students will be fully admitted to the Department of Law Enforcement only after a determination of good character has been made. A thorough check will be made of each student's background during the first semester in which the student enrolls for Law Enforcement courses.

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*Credit is to be granted for only one of these cross-listed courses.

LAW ENFORCEMENT—GENERAL

Curriculum with a major in Law Enforcement leading to the Bachelor of Science Degree. The first two years of this curriculum may be found in the Central University College section of the catalogue.

Third Year

First Semester	Hours	Second Semester	Hours
LEN Elect.	3	LEN 303	3
LEN 301	3	LEN 304	3
LEN 302	3	*Minor Subject	3
*Minor Subject	3	PSY 308	3
PSY 211	3	SOC 231	3
	15		15

Fourth Year

ART 390	3	ART 391	3
LEN 305	3	Gen. Elec.	2
LEN 306	3	LEN 307	1
Minor Subject	6	LEN Elec.	3
		Minor Subject	3
		POL 362	3
	15		15

LAW ENFORCEMENT—GENERAL

Curriculum for an Associate of Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
OAD 151	2	GSC 162 or 170	3
GSC 176	3	GSE 102	3
GSE 101	3	GSP 181	1
GSP 180	1	LEN 102	3
HEA 202	2	LEN 203	3
LEN 101	3	LEN 205	3
MIL 101	2	MIL 102	2
	16		18

Second Year

LEN 301	3	LEN 304	3
LEN 302	3	LEN 305	3
LEN 303	3	LEN 306	3
MIL 201	2	LEN 307	1
POL 101	3	MIL 202	2
PSY 211	3	POL 362	3
		SOC 231	3
	17		18

*Minors are recommended in the fields of business, psychology, sociology, or political science. The minor field should be selected in consultation with the Director of the School of Law Enforcement. The courses comprising the minor field (18 semester hours) will be selected with the approval of the Director of the School of Law Enforcement and the department head in the minor field.

**Law Enforcement electives selected with approval of the Director of the School of Law Enforcement. Other electives must be approved by the Director of the School of Law Enforcement and should be selected from courses offered by the Department of Anthropology and Sociology.

LAW ENFORCEMENT—INDUSTRIAL SECURITY

Curriculum for an Associate of Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
OAD 151	2	GSC 162 or 170	3
GSC 176	3	GSE 102	3
GSE 101	3	GSP 181	1
GSP 180	1	LEN 102	3
HEA 202	2	LEN 203	3
LEN 101	3	LEN 205	3
MIL 101	2	MIL 102	2
	16		18

Second Year

LEN 301	3	LEN 304	3
LEN 302	3	LEN 306	3
LEN 312	3	LEN 307	1
MIL 201	2	LEN 313	3
POL 101	3	MIL 202	2
PSY 211	3	POL 362	3
		SOC 231	3
	17		18

LAW ENFORCEMENT—CORRECTIONS

Curriculum for an Associate of Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
OAD 151	2	GSC 162 or 170	3
GSC 176	3	GSE 102	3
GSE 101	3	GSP 181	1
GSP 180	1	LEN 102	3
HEA 202	2	LEN 204	3
LEN 101	3	LEN 205	3
MIL 101	2	MIL 102	2
	16		18

Second Year

LEN 301	3	LEN 304	3
LEN 303	3	LEN 306	3
LEN 308	3	LEN 307	1
MIL 201	2	LEN 309	3
POL 101	3	MIL 202	2
PSY 211	3	POL 362	3
		SOC 231	3
	17		18

LAW ENFORCEMENT—JUVENILE

Curriculum for an Associate of Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
OAD 151	2	GSC 162 or 170	3
GSC 176	3	GSE 102	3
GSE 101	3	GSP 181	1
GSP 180	1	LEN 102	3
HEA 202	2	LEN 203	3
LEN 101	3	LEN 205	3
MIL 101	2	MIL 102	2
	16		18

Second Year

LEN 301	3	LEN 304	3
LEN 303	3	LEN 306	3
LEN 310	3	LEN 307	1
MIL 201	2	LEN 311	3
POL 101	3	MIL 202	2
PSY 211	3	POL 362	3
		SOC 231	3
	17		18

LAW ENFORCEMENT (LEN)

LEN 101. Introduction to Law Enforcement. **Three hours.** A.

An Introduction to Law Enforcement. **Three hours.** A.

An introduction to the philosophical and historical background; agencies and processes; purposes and functions. An evaluation of law enforcement today; current trends; career orientation.

LEN 102. Police Systems. **Three hours.** A.

Police Systems established in America and abroad: functions and activities, divisions and subdivisions with responsibilities and functions of each. Contrasting of structures, with a view of transitions.

LEN 203. Police Patrol and Services. **Three hours.** A.

Organization, administration and supervision of patrol function. Responsibilities, techniques and methods of police and patrol. Various services and public assistance offered by police organizations.

LEN 204. Introduction to Penology. **Three hours.** A.

A survey of philosophy and history of corrections; a study of correctional institution; probation, parole, and processes involving corrections; a survey of career opportunities.

LEN 205. Police Administration I. **Three hours.** A.

An examination of the principles of organization, administration and functions of police departments. An evaluation of personnel policies, divisions, operations, command policies, and evaluation of the department as a whole.

LEN 301. Introduction to Criminalistics. **Three hours.** A.

A course designed to give the student a basic knowledge of crime scene protection, collection, preservation anl identification of evidence, including proper search, dusting latent print, casting, finger print classification, and use of crime laboratory and crime detection and prosecution.

LEN 302. Motor Vehicle Codes and Traffic Records. **Three hours.** A.
A study of the development and need for traffic laws with primary attention focused upon the Uniform Motor Vehicle Code and Model Traffic Ordinances including use and implementation. The maintenance and preparation of an adequate records system relative to traffic safety is examined.

LEN 303. Court Procedures and Mechanics. **Three hours.** A.
Case preparation; officer demeanor in court; effective presentation of evidence; trial procedure; use of written notes; officer appearance; and reaction of cross examination.

LEN 304. Criminal Investigation. **Three hours.** A.
Fundamentals of criminal investigation, crime scene search and recording, collection and preservation of physical evidence, scientific aids, modus operandi, sources of information, interviews and interrogation, follow-up and case preparation.

LEN 305. Police Administration II. **Three hours.** A.
Prerequisite: **LEN 205.**
A detailed study of the organization, administration and function of the police department. The designing of policies; a study of the arrangement within a department of specific operations and commands.

LEN 306. Seminar in Law Enforcement. **Three hours.** A.
Reviews and synthesis of basic principles, practices, and procedures. Visitation to operating police organization. Final preparation for employment in law enforcement.

LEN 307. Firearms. One hour. A.
This course includes the moral aspects, legal provisions, safety precautions, restrictions covering the use of firearms, nomenclature, and the firing of the sidearm and shotgun.

LEN 308. Probation and Parole. **Three hours.** A.
A history and philosophy of probation and parole; function and operation of parole board; statutory authorization and limitation; modern trends; personnel qualifications.

LEN 309. Prison Security and Administration. **Three hours.** A.
Selection and training of guard force; dispersement of guard personnel; design and arrangement of physical detention barriers; separation of prisoner personnel; dealing with illegal traffic within the prison; scheduling activities and labor details; prison policies and procedures.

LEN 310. The Juvenile and Police. **Three hours.** A.
The development of delinquent and criminal behavior; initial handling and proper referrals; preventive police techniques; special police problems with juveniles; juvenile laws; agencies concerned.

LEN 311. Juvenile Procedures. **Three hours.** A.
A course in organization, function, and jurisdiction of juvenile agencies; the processing and detention of juveniles; case disposition; and juvenile statutes and court procedures.

LEN 312. Business and Industrial Security. **Three hours.** A.
Selection, training and staffing of security force; security devices available; techniques of internal security; ground security; security techniques applicable to personnel selection; legal problems; employment opportunities.

LEN 313. The Prevention of Fire and Accidents. **Three hours.** A.
Fire and accident prevention, organization and functioning; recognition and solution of hazards; regulations and enforcement; common and special problems.

LEN 314. Criminal Law. **Three hours.** A.
The structure, definitions, and interpretations of the most frequently used sections of the penal code and other criminal statutes.

NURSING (NUR)

C. Denny, Chairman; Berge, Fredric, Pettengill, Wisenbaker.

The Associate of Arts Degree Program in Nursing combines general education and nursing education in a two year collegiate environment. Graduates of this program who pass the state licensing examination are licensed to practice as Registered Nurses in Kentucky.

Purpose:

1. The primary purpose of the program is to prepare the student to give patient-centered care.
2. The program is designed to help the student develop her potential as an individual, as a citizen in a democratic society, and as a contributing member of the nursing profession.
3. As a practitioner of nursing, a graduate of this program is prepared to draw upon a background of scientific and humanistic understanding in administering nursing care.

Curriculum with a major in Nursing leading to an Associate of Arts Degree.**

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	GSE 102	3
BIO 171	4	CHE 104	4
GSP 180	1	GSP 181	1
NUR 101	5	NUR 103	4
NUR 102	3	NUR 104	4
		HEC 310	2
	16		18

Second Year

BIO 273	4	NUR 203	4
NUR 201	4	NUR 204	4
NUR 202	4	NUR 205	2
*Electives	6	*Electives	6
	18		16

*Restrictive electives to be selected (1) one course from each of two of the following areas: Psychology, Anthropology, Sociology, or GSS 142; and (2) two courses selected from English Literature, Drama, Humanities, Art Appreciation and/or Music Appreciation.

**Men students must enroll in Military Science each semester unless they have prior active service.

NURSING (NUR)

NUR 101. Nursing Fundamentals. **Five hours. I.**
Scientific principles underlying nursing care; development of basic skills used in providing patient care; selected clinical experiences required.

NUR 102. Interpersonal Relationships in Nursing. **Three hours. I.**
Principles related to nursing diagnosis and their implications in providing patient care.

NUR 103. Nursing Care of Mothers and Newborns. **Four hours.** II.
Scientific principles used in providing nursing care to mothers and newborns; development of skills used in providing this care; selected clinical experiences required.

NUR 104. Medical—Surgical Nursing I. **Four hours.** II.
Concepts underlying physical and emotional responses to illness; development of general nursing skills applicable to the care of all medical-surgical patients; selected clinical experiences required.

NUR 201. Nursing Care of Chidren. **Four hours.** I.
Scientific principles used in providing nursing care to children; development of skills used in providing this care; selected clinical experiences required.

NUR 202. Medical—Surgical Nursing II. **Four hours.** I.
Physical disorders of patients and appropriate nursing interventions; selected clinical experiences required.

NUR 203. Psychiatric Nursing. **Four hours.** II.
Concepts and skills needed to interact therapeutically with individuals with emotional problems; selected clinical experiences required.

NUR 204. Medical—Surgical Nursing III. **Four hours.** II.
Continuation of Medical—Surgical Nursing II; emphasis on more complex physical disorders; selected clinical experiences required.

NUR 205. Seminar in Nursing. **Two hours.** II.
Problems in nursing; role of the nurse in working toward their solution.

THE KENTUCKY SCHOOL OF CRAFTS (KYC)

K. Hansson, Chairman

The Kentucky School of Crafts began offering courses with the beginning of the 1966-67 academic year. The dominant objective of the Kentucky School of Crafts is to provide vocational-technical training in the crafts. Opportunities are provided for novice craftsmen to gain knowledge and skill and for practicing craftsmen to upgrade themselves in their particular craft.

Students who complete the two-year course of study are prepared, with entry level skills, for work in production shops, as self-employed craftsmen, or skilled workers and technicians in related industries. The in-service program for teachers has as its purpose the upgrading of teachers and craft programs in schools and communities.

KENTUCKY SCHOOL OF CRAFTS (KYC)

WOODCRAFT

Curriculum with a major in Woodcraft leading to an Associate of Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	GSE 102	3
GSS 144	3	GSP 181	1
GSP 180	1	IED 191	3
KYC 120	3	KYC 150	3
ART 100	3	KYC 162	3
KYC 161	3	ART 200	3
MIL 101 (Men) or elective (women)	2	MIL 102 (men) or elective (women)	2
	18		18

Second Year

GSC 161	3	KYC 262	3
ART 117	3	KYC 280	3-6
IED 292	3	GBU 101	3
KYC 261	3	MIL 202 (men) or elective (women)	2
MIL 201 (men) or elective (women)	2	*Elective	3-6
*Elective	3		
	17		17

*Elective in Art, Industrial Education, or Kentucky School of Crafts.

KENTUCKY SCHOOL OF CRAFTS (KYC)

KYC 120. Introduction to Craft Techniques. **Three hours. A.**

Survey of the history of craft; relationship between the crafts and the major arts; craft in contemporary society; craft as a vocation and an avocation; kinds of crafts; media and techniques in craft work; the craft market.

KYC 150. Designing for the Crafts. **Three hours.** A.

Design and techniques of designing in the crafts; application of the principles of design related to various media; experimentation and problem solving in developing design solution; designing for production.

KYC 161. Woodworking, Woodcrafts, Materials and Processes. I. **Three hours.** A.

Introduction to woodcrafts; function, care and use of hand and machine woodworking tools; kinds, qualities, and sources of wood; basic experiences with three-dimensional woodcraft; fundamental techniques of wood fabrication including carving, turning, joinery, and finishing.

KYC 162. Woodworking, Woodcrafts, Materials and Processes. II. **Three hours.** A.
Prerequisite: KYC 161.

A continuation of Woodworking, Woodcrafts, Materials, and Processes I; advanced techniques of wood fabrication; introduction to new materials, methods, and techniques in woodcrafts; design of craft articles.

KYC 261. Woodworking, Woodcrafts, Materials and Processes. III. **Three hours.** A.
Prerequisite: KYC 162.

Design, layout, and construction of furniture and craft items; veneering, laminating, and finishing; production methods and techniques; use of jigs, fixtures, and templates; analysis of design and production problems.

KYC 262. Woodworking, Woodcrafts, Materials and Processes. IV. **Three hours.** A.
Prerequisite: KYC 261.

Advanced design, layout, and construction of furniture and craft items; advanced finishing; techniques of veneering, laminating, and finishing; production methods and techniques; equipping, operating, and layout of the small shop; utilization of tools and machinery.

KYC 280. Special Problems in Woodcrafts. Three-six hours. A.
Student will design and fabricate, with the approval of the instructor, one or more craft items to be submitted to a board for evaluation.

KYC 290. Woodcraft. **One hour.** A.
Introduction to woodcraft; characteristics and uses of various hard and soft woods; basic experiences with three-dimensional crafts including carving, finishing, and designing.

KYC 291. Metalcraft. **One hour.** A.
Introduction to metalcraft; techniques of designing; layout, raising, planishing, chasing, etching, soldering, and enameling.

KYC 292. Leathercraft. **One hour.** A.
Introduction to leathercraft; designing in leather; basic experiences in leather work—cutting, tooling, embossing, carving, lacing, dyeing, coloring, and braiding.

KYC 500. Special Problems and Field Study. **Three hours.** A.
A course for teachers in crafts and related fields; problems and issues in vocational and avocational crafts are studied; planning of crafts programs for the community based on a study of the school, facilities, community, the people, and the teacher's interest and ability.

KENTUCKY PEACE OFFICERS' STANDARDS AND TRAINING COUNCIL

R. Stone, Executive Director

The Kentucky Peace Officers' Standards and Training Council was organized September 1, 1966 on the Eastern Kentucky University campus operating with a Federal grant under the Law Enforcement Assistance Act of 1965. This planning Council is the first in the United States to be formed under this act. It was organized because of the ever-expanding demands on police officers and the need for more effective and efficient law enforcement. These demands are brought about by the significant and constant rise in the crime rate, devious and ingenious means now being used by criminals, making repression and solution of crimes more difficult and by the interpretations of the courts which require peace officers to be exacting, thorough and meticulous in the work. The training to be given to policemen and sheriffs as a result of this program would be largely independent of the educational program of the School of Law Enforcement at Eastern Kentucky University and will include in-service training of a technical nature. Those officers completing the training would receive certificates to that effect.

A Council of 18 persons has been selected and meets bimonthly. The Council includes six chiefs of police, the Special Agent in Charge of the F.B.I., the Director of the Kentucky State Police, the Attorney General of Kentucky, representatives of higher education, and members of the major groups representing policemen and sheriffs throughout the state.

Considerable research is being conducted so that this Council may suggest minimum standards for police in Kentucky, and may set up a training program including basic courses for new officers and training at the supervisory and command levels. Material concerning the curricula, lesson plans and operation of police schools throughout the country is being compiled. The experiences of other states in this field are proving very helpful in the preparation of a working program for police training here.

It is anticipated that the successful development of this program will upgrade law enforcement in Kentucky and give it truly professional status. One important phase of the program includes making its objectives known to law enforcement officers and to all Kentuckians.

TRAFFIC SAFETY INSTITUTE

L. Leach, Director; C. Hulteen

The Traffic Safety Institute was established in 1966 to provide instruction, research, and public service in the broad area of traffic safety. Additional information regarding the Institute may be obtained by writing the Director of the Traffic Safety Institute, Eastern Kentucky University, Richmond, Kentucky 40475.

* TRS 585. Teacher Preparation in Driver Education. Three hours. I, II.
Analysis of traffic accidents, attitude factors, essential knowledge of automobile operation, and traffic laws and regulations. Includes introduction to laboratory experiences; use of psycho-physical testing and development of driving proficiency.

* TRS 586. Administration and Supervision of Driver Education. Three hours. II.
Preparation for secondary school instruction. Problems of organization and administration of driver education on the secondary level. Emphasis on scheduling, public relations, competence in transferring knowledge and skills, and satisfactory attitudes in students.

* TRS 585 and 586 are limited to students pursuing a teacher education program except with the permission of the dean of the college in which the student has his major.

EKU

College of Arts and Sciences

Pre Curricula . 148
Anthropology and Sociology . 151
Art . 157
Biology . 161
Chemistry . 169
Drama and Speech . 173
English . 178
Foreign Languages . 185
Geography . 191
Geology . 196
History . 199
Mathematics . 207
Music . 211
Philosophy . 220
Physics . 222
Political Science . 225
Science . 230

COLLEGE OF ARTS AND SCIENCES

Frederic D. Ogden, Dean

Glenn O. Carey, Associate Dean

The role of the College of Arts and Sciences is to provide a basic liberal education for the student and to help him prepare for life in the cultural setting in which he will practice his vocation or profession. A liberal education is designed to free and enlarge the mind and spirit of man, to liberate him from the meanness and meagerness of mere existence, and to enable him to choose in freedom his values and goals. The College offers opportunities for this kind of education not only to its own students but also the students of all divisions of the University. It cooperates with Central University College in providing courses in general education; with the Colleges of Applied Arts and Technology, Business, and Education in providing upper level courses; and with the Graduate School in providing graduate programs and graduate courses.

To fulfill its role, the College offers instruction and conducts research in anthropology, art, biology, chemistry, drama, English, foreign languages, geography, geology, history, journalism, mathematics, music, philosophy, physics, political science, sociology, social work, speech and wildlife management. In addition, a student in the College may pursue a course of study in economics.

Another important function of the College is to offer courses which are intended to prepare the student for later study of professional courses. Specific preprofessional programs are offered which are designed to prepare the student to qualify for admission to schools of medicine and dentistry. A three-year medical technology curriculum, with the fourth year to be taken in an accredited hospital, is provided. Courses are offered which are designed to prepare the student for further work in engineering, forestry, law, optometry, pharmacy and veterinary medicine.

Admission

Students are admitted to the College at the beginning of their junior year. Those students pursuing courses of study offered by departments in the College will be registered in it. Students seeking certification to teach at the secondary level will be registered in the College of Arts and Sciences if their majors are in the College. To be admitted, students must have completed a minimum of sixty-four semester hours with a grade point average of 1.8 or higher.

DEGREES OFFERED

Degrees Offered

The College of Arts and Sciences offers curricula leading to the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Music Education, and Bachelor of Music. For the requirements for degrees in music, see the music section of this catalogue.

Requirements for Graduation

Students file an application for graduation with the Registrar. They should apply by the end of May if they will complete requirements in January, by December if they will graduate in June or August. This application is forwarded to the Dean of the College who will check the student's record and notify him of any deficiency. **It is the student's responsibility to plan his program and to register for the proper courses so that he will have satisfied all requirements at the time he expects to graduate.**

The requirements for the degree are:

1. A minimum of 128 hours and a grade-point average of 2.0. Thirty of the last 36 hours must be earned in residence at Eastern Kentucky University. Credits earned by correspondence study are accepted upon written approval of the Dean. Not more than twenty-five per cent of the total credits offered for the degree may be in correspondence and/or extension work.

2. The 128 hours must include the following general subject requirements:

6 hours in communications

12 hours in humanities

12 hours in social science

12 hours in mathematics and natural science (all may be in natural science with at least three hours in biological science and three hours in physical science.)

5 hours in health and physical education

8 hours in military science (men only)

(See Central University College section for the specific course requirements.)

3. Area, major and minor requirements. Each student must have an area of specialization or a major and a minor subject of specialization. The minimum total number of hours in the area and in the major-minor combination must equal 48. See the programs outlined under each department for the specific course requirements.

Each student must officially register his area or his major and minor when he is admitted into the College of Arts and Sciences. He does so by applying for a planned curriculum. If he plans to receive a certificate to teach, he applies for the planned curriculum in the Office of the Associate Dean for Teacher Education, College of Education. If he does not plan to receive a certificate to teach, he applies in the Office of the Dean, College of Arts and Sciences. Each student's planned curriculum will be prepared in consultation with a faculty advisor from the major department staff who will continue as the student's advisor until graduation. Any change in the planned curriculum must be approved by the advisor, the Dean of the College of Arts and Sciences, and the Associate Dean of Teacher Education (if with right of certification).

Graduate Programs

In cooperation with the Graduate School, the College offers Masters of Arts program in English, Geography, and History; Master of Science programs in Biology and Chemistry, and a Master of Music Education program. These programs are described in the Graduate Bulletin under the Departments of Biology, Chemistry, English, Geography, History and Music.

PRE-PROFESSIONAL CURRICULA

PRE-ENGINEERING CURRICULUM

A student may take one or two years of fundamental work at Eastern and then transfer to an engineering college without appreciable loss of credits if he chooses his courses wisely. The pre-professional courses should be chosen from mathematics, chemistry, physics, and other basic subjects.

Freshman	Hours
CHE 111, 112	9
GSE 101, 102	6
GSP 180, 181	2
MAT 109 or 111, 111 or 112	8-9
MIL 101, 102	4
INT 191	3
Electives*	3
	35-36

Sophomore	Hours
MAT 112 or 213, 213 or 453	7-8
MIL 201, 202	4
PHY 107, 201, 202, 220	14
Electives*	10
	35-36

*To be approved by a pre-engineering advisor.

PRE-FORESTRY CURRICULUM

Arrangements made through the Southern Regional Education Board provide for students who wish to prepare as professional foresters to do the first two years of their work at Eastern Kentucky University and complete their training in two years and one summer at North Carolina State College in Raleigh.

The minimum education requirement for admission to a School of Forestry is given in this catalogue under Agriculture in the College of Applied Arts and Technology.

Students may elect a three-year program and graduate with a Bachelor of Science degree with a major in biology by transferring 30 semester hours from an accredited School of Forestry. This can be done by first completing two years as outlined in the Pre-Forestry Curriculum in the Central University College section of this catalogue and then by completing certain other requirements for graduation including the following:

GLY 200
AGR 215
ECO 230
PHY 131 and 132
BIO 335, 336 or 528 and 315
Humanities elective, 6 hrs.

PRE-LAW CURRICULUM

See page 47 for this curriculum description.

PRE-OPTOMETRY CURRICULUM

Students who plan to enter the field of optometry may elect to take two years of pre-optometry at Eastern and transfer these credits to an optometry school. A minimum of three years work is required in the optometry school for the Doctor of Optometry (O.D.). Some optometry schools require four years for the O.D. and several universities have graduate programs leading to the M.S. and Ph.D. degrees in addition to their programs leading to the O.D.

Requirements for admission to optometry schools vary. The student wishing to enter a pre-optometry program should immediately secure a bulletin from the optometry school of his choice.

Courses which students may take to meet requirements for admission to most optometry schools should include the following ones:

	Hours		Hours
GSE 101, 102	6	BIO 141, 221	8
GSS 140, 142	6	PSY 211	3
GSP 181, 182, 281	5	MIL 101, 102, 201, 202	8
MAT 109, 111	9	PHY 131, 132	10
CHE 111, 112	9	Humanities	4

Students may elect to obtain a Bachelor of Science degree at Eastern before obtaining the Doctor of Optometry in an optometry school. In this event the curriculum will be outlined by the science department in which each student majors, and must be approved by the Dean of Arts and Sciences.

A limited number of Kentucky residents may be accepted for a scholarship at the School of Optometry, University of Houston. For those accepted, the Commonwealth of Kentucky will pay the University of Houston the non-resident differential in an amount not to exceed $375 per academic year for those students who exhibit satisfactory progress toward completion of the prescribed four-year curriculum at the University of Houston.

Application forms may be secured from the Executive Director, Council on Public Higher Education, 319 Ann Street, Frankfort, Kentucky. The quota for new students is limited each year. For further information, students should consult with the chairman, Department of Physics.

PRE-PHARMACY CURRICULUM

Students who plan to enter the field of pharmacy may take two years of pre-pharmacy at Eastern and transfer these credits to a pharmacy school. The curriculum given below will meet the requirements of most pharmacy schools. The student wishing to enter the program should determine the admission requirements of the pharmacy school of his choice and determine, after consulting the pre-pharmacy advisor, which courses he should take.

Freshman	Hours	Sophomore	Hours
CHE 111, 112	9	CHE 213	4
GSE 101, 102	6	BIO 111, 221	8
MAT 109	5	GSS 246, 247	6
GSP 180, 181	2	ECO 230	3
MIL 101, 102 (Men) or Elective (Women)	4	PHY 131, 132	10
BIO 131	4	MIL 201, 202 (Men) or Elective (Women)	4
Electives*	6		
	36		35

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*Electives should be chosen to meet the requirements of the college in which study for the pharmacy degree will be completed.

PRE-VETERINARY MEDICINE CURRICULUM

Kentucky students may enter veterinary medical training at Auburn University, Auburn, Alabama, or at Tuskegee Institute, Tuskegee, Alabama. The State of Kentucky makes this possible through its participation in the Southern Regional Education program.

The State pays $1,500 per student per year through the Southern Regional Education Board to the institutions. Each year Auburn University holds twelve places and Tuskegee Institute holds two places for entering students from Kentucky. These students must meet admission requirements of the schools. If admitted, Kentucky students have the same status as Alabama students. They do not pay out-of-state tuition.

The minimum requirements for admission to the School of Veterinary Medicine, Auburn University, are given in this catalogue under Agriculture in the College of Applied Arts and Technology.

Students may elect a three-year program at Eastern and graduate with a Bachelor of Science degree with a major in biology by transferring 30 semester hours from an accredited School of Veterinary Medicine. This can be done by completing two years as outlined in the Pre-Veterinary Curriculum in the Central University College section of this catalogue and then by completing certain other requirements necessary for graduation including the following:

CHE 361 and 362
BIO 221 or 315 and 548
ENG 209 or 211 and 210 or 212
AGR 221
Social Science electives, 6 hrs.

CURRICULUM PREPARATORY FOR MEDICINE, DENTISTRY AND MEDICAL TECHNOLOGY

The Pre-Medical Sciences curriculum should be followed by both pre-medical and pre-dental students. This curriculum complies with the general entrance requirements for medical and dental schools, although some modification may be necessary to meet the specific requirements of a few schools. Completion of this program fulfills the requirements for graduation from Eastern with a Bachelor of Science degree.

It is recommended that a student complete the four-year course at Eastern before transferring to a medical school. This gives him obvious advantages in medical school and in later work. Some medical schools require a four-year course for admission.

Students may elect to complete the outlined first three years of this program at Eastern and then use the first year of work from an accredited medical or dental school to complete the requirements for the Bachelor of Science degree. Medical schools should be approved by the Association of American Medical Colleges and the American Medical Association. Dental schools should be approved by the Council on Dental Education of the American Dental Association.

PRE-MEDICAL SCIENCES CURRICULUM

The first two years of this curriculum may be found in the Central University College section.

In addition to general education requirements the total program shall include Biology 111, 141, 221, 242, 515, 546, 547, and 548; Chemistry 111, 112, 213, 361, 362, and 470; Economics 230; Mathematics 109 and 111; Physics 131 and 132.

Junior	**Hours**
CHE 361, 362	9
ENG 209 or 211 210 or 212	6
BIO 515, 546	6
PHY 131, 132	10
Social Science (Area III, B.2., upper division)	3
	34

Senior	**Hours**
BIO 547, 548	8
Foreign Lang.	6
Electives (u.d.)	12
CHE 470	5
	31

MEDICAL TECHNOLOGY CURRICULUM

Eastern offers students interested in becoming medical technologists the required three years of college work necessary to qualify for training at a School of Medical Technology.

A Bachelor of Science degree may be obtained from Eastern after completion of the three-year curriculum outlined below and in the Central University College section, and the program of a School of Medical Technology accredited by the American Society of Clinical Pathologists. Credit equivalent to a fourth year of course work must be transferred back to Eastern. The student should enroll in a School of Medical Technology which is affiliated with Eastern ~~[illegible]~~

MEDICAL TECHNOLOGY CURRICULUM

Junior	**Hours**
CHE 361, 362	9
BIO 221, 548, 511 or 546	10-11
PHY 131, 132	10
Humanities Electives (Area II, B.)	6
	35-36

Senior

Work must be taken at an accredited School of Medical Technology

ANTHROPOLOGY AND SOCIOLOGY

Chairman, Harry Hale, Jr.; J. Horowitz, N. Peterson, B. Stark, J. M. Walker, D. Ward, P. S. Webb and V. Wisenbaker.

The multi-disciplinary nature of this department requires curricula designed to accomplish several purposes:

> To provide the student with greater understanding of the social world of which he is a part.
>
> To provide the student with a fundamental background as preparation for future graduate level study.

The Department of Anthropology and Sociology offers three majors:

1. The major in Anthropology is intended, primarily, to prepare the student for graduate study in that field. Secondarily, the major is offered as an adjunct for those students who wish to combine Anthropology with another area which will provide them with employment opportunities.

2. The major in Sociology is provided as preparation for graduate study. Provision is made for the preparation of students for specific employment and academic opportunities, such as careers in teaching, social welfare, personnel and industrial placements, research opportunities in governmental agencies, and work in community organizations such as health facilities, recreation, and housing developments.

3. The major in Social Work is intended for three categories of students.
    a. As preparation for graduate study in a school of social work.
    b. As a basis for a greater understanding of aspects of social work in preparation for entry into public welfare.
    c. Since social welfare, next to defense, is the largest item in government spending, to provide the student with a background so that, as a citizen, he can intelligently discuss and act on social welfare issues.

Because of these differing academic purposes the student is urged to give special attention to each of the divisions in his choice of courses, selected in conference with his advisor.

ANTHROPOLOGY (ANT)

Curriculum requirements for a major in Anthropology:

A student may major in Anthropology (non-teaching) by completing a minimum of 30 hours (18 hours of which must be at the 300 level or higher) as follows: 18 hours in courses from Category A; 6 hours from Category B; and 6 hours from Category B and/or Category C.

Category A: ANT 110, 201, 202, 465, 555; PSY 213 or MAT 207
Category B: ANT 300, 310, 330, 350, 440
Category C: ANT 340, 420, 590; GEO 101 or 210, 102 or 220; 330; GLY 109 or 211; PSY 211; BIO 403; SOC 400; ENG 539, 540; Foreign Language 202 or course with higher number designation.[1]

Curriculum requirements for a minor in Anthropology:

A student may minor in Anthropology by completing a minimum of 18 hours (9 hours of which must be at the 300 level or higher) as follows:

ANT 110, 201, 202, 465 or 555; 3 hours from Category B above; and 3 hours from Category B or Category C above.

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[1] Credit not to be allowed toward both General Education requirements and requirements for a major or minor in Anthropology for the following courses: GEO 101, 102, 210; GLY 109, 211; Foreign Language 202 or other foreign language courses with higher number designation.

Curriculum for a major in Anthropology: (The first two years of this curriculum may be found in the Central University College section.)

It is presumed that ANT 201 and 202 will have been taken before the junior year. If not, they should be taken as indicated. Also, it is anticipated that students will have taken some or all of the following courses during their lower division years: MAT 107; either MAT 207 or PSY 211 and 213; SOC 231. In any case, these should be completed by the end of the junior year.

Junior	Hours
ANT "B" Electives	6
MAT 107 or Elective	3
PSY 211 or elective	3
MAT 207 or PSY 213	3
ANT 201 or elective	3
SOC 231 or elective	3
ANT 202 or elective	3
Electives	8
	32

Senior	Hours
ANT 465	3
ANT 555	3
ANT "B" or "C" Electives	6
Electives	20
	32

SOCIOLOGY (SOC)

Correct.

A student may major in Sociology (teaching and non-teaching) by taking thirty hours at the sophomore level and above. The following Sociology courses are required: ANT 110; SOC 231, 320, 395, 460 and 461. The remaining twelve hours must be elected as follows:

A. Three hours from Sociology 335, 340 or 375.

B. Three hours from Sociology 332, 345, 360 or 425.

C. Three hours from Sociology 450, 465, 400 or 455.

D. Three hours from Sociology 410 or 463.

A student may minor in Sociology by completing the following courses: ANT 110; SOC 231, 320, 460; and an additional six hours must be elected: 3 hours from Category A or B above, and three hours elected from Category C or D above.

It is strongly recommended that students majoring in Sociology also elect nine hours from the following areas: Anthropology, Economics, Philosophy, Political Science or Psychology.

Curriculum for a major in Sociology (teaching):

A student with a major in Sociology (teaching) must have a second major or minor in either History or English. The first two years of the curriculum (for teaching and non-teaching) may be found in the Central University College section.

Junior	Hours
EDU 317	4
SOC 320, 395	6
SOC 460, 461	6
Electives	15
	31

Senior	Hours
SOC Electives	12
Electives	3
EDU 462	4
EDU 463	10
HIS 466	3
	32

Curriculum for a major in Sociology (non-teaching):

Junior	Hours	Senior	Hours
SOC 320, 395	6	SOC 460, 461	6
SOC Electives	12	SOC Electives	15
Electives	15	Electives	10
	33		31

SOCIAL WORK (SOW)

The requirements for a major in Social Work (non-teaching): Thirty hours at the sophomore level or above. The following courses are required: (1) Sociology 231, 335 and 395; (2) Anthropology 202; and (3) Social Work 370, 415, 500 and 505. For majors, fifteen hours of Sociology electives are recommended. The balance of courses may be selected from the following areas: Anthropology, Economics, Philosophy, Political Science or Psychology. The first two years of this curriculum may be found in the Central University College section.

Junior	Hours	Senior	Hours
SOW 370 and SOW 415	6	SOW 500 and SOW 505	6
SOC 335 and 395	6	SOW Electives	3
ANT 202	3	SOC Electives	9
SOC Electives	6	*Electives	15
*Electives	15		
	36		33

*See recommended departments above

ANTHROPOLOGY (ANT)

ANT 110. Societies Around the World. **Three hours.** I, II.
Ethnography of selected cultures around the world; the formal and informal ways, technology, and ideology. Primitive and folk societies.

ANT 201. (formerly covered in part by ANT 230) Introduction to Anthropology, I. **Three hours.** I, II.
General survey of principal areas of physical anthropology, including an appraisal of the nature of man and the place of man in nature; of linguistics and the importance of language in a study of man; and of prehistoric archaeology, or the reconstruction of the various stages in the development of human societies prior to the discovery of writing.

ANT 202. (formerly covered in part by ANT 230) Introduction to Anthropology, II. **Three hours.** I, II.
Introduction to the anthropological approach to the social sciences with emphasis on culture and related concepts. Development of generalizations concerning material culture, economic organization, social structure, religion, political system, etc., based on the comparative study of various primitive societies of the present and recent past.

ANT 300. (formerly ANT 200) Bio-Anthropology. **Three hours.** I.
Prerequisite: ANT 201 or BIO 141 or consent of instructor.
Examination of the fossil evidence for man's origin and early development; formation and spread of modern racial groups; processes of human growth; the role of genetics; and the interrelation of the biological with the cultural aspects of man.

ANT 310. Development of Prehistoric Cultures. **Three hours.** II.
Prerequisite: ANT 201 or consent of instructor.
Stages of cultural growth, from earliest times until the dawn of civilization, with attention given to factors promoting and hindering developments, prefaced by consideration of archaeological and ethnological techniques of investigation.

ANT 330. American Indians. **Three hours.** I.
Prerequisite: ANT 110 or 201 or 202, or consent of instructor.
Primarily a study of North American Indian cultures and their origins and development. Particular attention given to their similarities and differences.

ANT 340. Folk and Peasant Societies. **Three hours.** II.
Prerequisite: ANT 110 or 202; or consent of instructor.
Folk or peasant form of adaptation. Emphasis given to the relatively stable nature of these societies, and their extensiveness. Consideration of problems arising when contacts are made with non-peasant societies.

ANT 350. Social Organization. **Three hours.** II.
Prerequisite: ANT 110 and 202; or consent of instructor.
Relationships between cultural systems and physical environment; marriage and family organization; development of political and legal systems.

ANT 420. Culture and Religion. **Three hours.** A.
Prerequisite: ANT 110 and 202; or consent of instructor.
Religious ideas, rituals, and organizations of primitive peoples; attention given to theories of origin and development and to function of religion in social systems.

ANT 430. Culture and Personality. **Three hours.** A.
Prerequisite: ANT 110 or 202; or consent of instructor.
Origins of cultural and personality systems; details of the process of socialization; concepts of modal and normal personality and of national character reviewed against empirical studies; methods of personality assessment; problems of disorganization.

ANT 440. Culture and Language. **Three hours.** A.
Prerequisite: ANT 201 and 202; or consent of instructor.
Analysis of the role of language in human experience, mutual effect of language on culture and culture on language.

ANT 465. Field Methods in Anthropology. **Three hours.** A.
Prerequisite: Tweleve hours in courses accepted toward Anthropology major, including ANT 110, 201, and 202; or consent of instructor.
Primarily for Anthropology Majors. Introduction to methods and techniques in both field and library research. Such topics considered as defining the problem designing the study, collecting and analyzing the data, and writing the report covered.

ANT 555 (Formerly ANT 455). Anthropology Theory. **Three hours.** A.
Prerequisite: Twelve hours in courses accepted toward Anthropology major, including ANT 110, 201, and 202; or consent of instructor.
Systematic analysis of major theories in Anthropology, with emphasis on their meaning for research.

ANT 590. (formerly ANT 490). Tutorial in Anthropology. **Three hours.** A.
Prerequisite: Twelve hours in courses accepted toward major in Anthropology, including ANT 110, 201, and 202; or departmental approval.
Individual reading and research on a problem or area within the field of Anthropology by the student after consultation with the instructor.

GRADUATE COURSES

ANT 600. Anthropology and Modern Life. **Three hours.** A.
Extensive review of the field of anthropology with emphasis on implications of recent theoretical and factual developments for man in the modern world.

ANT 610. (Formerly ANT 510) Anthropology and Education. **Three hours.** A.
Prerequisite: ANT 600; or ANT 110 and 202; or consent of instructor.
Cross-culture analysis of educational processes; growth, adaptation, and personality development of the child (enculturation and socialization), including the transmission of skills, knowledge, attitudes and values; the relationship of the educational process to social structure.

SOCIOLOGY (SOC)

SOC 231. Introductory Sociology. **Three hours.** I, II.
Basic concepts and principles of sociology, including its relationship to allied fields. Basic elements of social structure, collective behavior, institutions, social change, and social deviation.

SOC 320. Self in Society. **Three hours.** I, II.
Prerequisite: SOC 231, and PSY 211.
A review of social psychology, its theory and methods. Particular attention given to the socialization process, and to the relationship of social factors to personality formation.

SOC 332. Urban Sociology. **Three hours.** I.
Prerequisite: SOC 231 or consent of the instructor.
Origin and development of the city; urbanism as a way of life; organization, functions, and problems of urban communities; urban renewal and planning.

SOC 335. Social Problems. **Three hours.** I, II.
Prerequisite: SOC 231.
An analysis of selected social problems such as crime, mental illness, sexual and other deviant behavior, divorce, population, and poverty. The analyses includes a consideration of the causes and consequences of these problems.

SOC 340. Juvenile Delinquency. **Three hours.** II.
Prerequisite: SOC 231.
An intensive concentration in the study of Socialization Problems of Youth. Special emphasis given to socially defined violations (by youth) of laws and moral definitions. Attention given to means of analysis and control.

SOC 345. Sociology of the Family. **Three hours.** II.
Prerequisite: SOC 231 or consent of the instructor.
Structure and function of the family with emphasis on contemporary patterns. Developmental stages of family in our society. Relationships between the family and other institutions, and family problems.

SOC 360. The Community. **Three hours.** II.
Prerequisite: SOC 231 or consent of the instructor.
Origins of community examined; emphasis placed on the modern community. Structure, function, and boundaries of contemporary communities, problems of community maintenance and rebuilding. Community action given special attention.

SOC 375. Criminology. **Three hours.** I.
Prerequisite: SOC. 231.
The theories of criminal behavior. Statistics of criminology. Administration of justice and rehabilitation. Preventive measures.

SOC 395. (Formerly SOC 570) Research Methods in Sociology. **Three hours.** A.
Prerequisite: SOC 231.
Various research methods which are employed in collecting, processing and interpreting data in social research are reviewed. A research project will be undertaken by each student.

SOC 400. Racial and Cultural Minorities. **Three hours.** I or II.
Prerequisite: ANT 230 or SOC 231, or consent of instructor.
A comprehensive analysis of minorities and intergroup relations from the standpoint of contemporary sociology, anthropology and social psychology: nature and types of racial and cultural groups; causes and consequences of prejudice and discrimination; scientific facts and democratic values in planning and resolving intergroup tensions.

SOC 410. Political Sociology. **Three hours.** II.
Prerequisite: Consent of the instructor.
An advance course dealing with the development of political sociology, its methods, models and theories.

SOC. 425. Sociology of Religion. **Three hours.** II.
Prerequisite: SOC 231 or consent of instructor.
Sociological analysis of religion. Function of religion in society. Comparison of types of religions. Organization of religions and their place in society.

SOC. 450. Social Change. **Three hours.** I
Prerequisite: Nine hours in sociology or consent of instructor.
Analysis of theories in regard to social dynamics. Factors related to social stability and social change. Problems of change and the absence of change.

SOC. 455. Collective Behavior. **Three hours.** A.
Prerequisite: SOC. 231, 320, 335 or consent of instructor
An analysis of mass phenomena such as rumors, fads, mobs, riots, panics and social movements. Analysis includes consideration of the development and termination of the collective behavior forms.

SOC 460. Sociological Theory I—Classical Writers. **Three hours.** I.
Prerequisite: Nine hours in sociology or consent of instructor
A survey of literature of the pioneers in the development of sociology. Includes ninetenth century and early twentieth century sociologists beginning with Auguste Comte. Emphasis on their theoretical contributions to sociology.

SOC 461. Sociological Theory II—Contemporary Theorists. **Three hours.** II.
Prerequisite: Nine hours in sociology, Sociological Theory I and consent of instructor.
The literature of twentieth century sociological theorists reviewed in depth.

SOC 463. Social Stratification. **Three hours.** I. (formerly 380)
Prerequisite: Nine hours in sociology
Consideration of the causes and consequences of social stratification. Includes definition of class, comparison of class systems in different societies, examination of the necessity of social class systems and the implications of social class for other social institutions.

SOC. 465. Population. **Three hours.** II.
Prerequisite: SOC 231 and 395 or consent of instructor.
Factors in the study of human populations. Population factors in relationship to social structure. Population problems in contemporary societies.

SOC 590. Tutorial in Sociology. A. **Three hours.**
Prerequisite: Twelve hours in courses accepted toward major in Sociology, including SOC 231, 320, 335 or departmental approval.
Individual reading and research on a problem or area within the field of sociology by the student after consultation with the instructor.

SOCIAL WORK (SOW)

SOW 370. Fields of Social Work. A. **Three hours.**
Prerequisite: SOC 231 and 335 and consent of the instructor.
An introduction to social welfare through an historical conceptual approach, with emphasis upon the functions and philosophy of social welfare as related to the various divisions in the field.

SOW 415. Principles and Concepts of Social Welfare. A. **Three hours.**
Prerequisite: 6 hours Sociology and Social Work 370
The role of the social worker and the goals of social welfare with emphasis upon the principles and concepts, utilizing the scientific approach as practiced in modern social work agencies.

SOW 420. Child Welfare. A. **Three hours.**
Prerequisite: 6 hours Sociology and SOC 370—consent of instructor.
A survey of field of child welfare, its scope, services and functions as practiced by governmental and private social work agencies.

SOC 500. Seminar in Social Work. A. **Three hours.**
Prerequisite: Six hours in Social Work, consent of instructor.
For majors in social work in preparation for field observation in social agencies. Special focus upon development of social welfare as a social institution.

SOW 505. Field Observation in Social Agency Program. A. **Three hours.**
Prerequisite: SOC. 500—consent of instructor.
For senior majors in preparation for job placement. Student placed in social welfare agency and under supervision observes the services performed, processes involved and relationship of work of agency to other community resources. Emphasis upon interdependence of theory and practice.

ART (ART)

D. N. Shindelbower, Chairman; Bandy, Carlson, Dozier, Gatwood, P. Harris, Hurwitz, Kirk, Lasley, McHone, G. Miller, Newhoff, Rhein, Scherubel, J. Todd and J. Williams.

A student may take a major (teaching or non-teaching), a second major, an area (teaching), or a minor in art (teaching or non-teaching).

The art course requirements for a major in Art (teaching) are ART 100, 101, 102, 103, 203, 204, 227 or 327 or 328, 229 or 235 or 329 or 335, 390, 391, 430, 461, 562.

The art course requirements for a major in Art (non-teaching) are ART 100, 101, 102, 103, 203, 227, 229, 330, 390, 391, 392, 562. The Art major (non-teaching) is required to take twelve hours in a foreign language if he begins the language in college, or six hours if he continues the language at the intermediate level.

The course requirements for a second major in Art are ART 100, 102, 103, 203, 227 or 327 or 328, 229 or 235 or 329 or 335, 390, 391, 430.

The course requirements for an area (teaching) in Art are ART 100, 101, 102, 103, 203, 204, 227, 229 or 235, 329 or 335, 327 or 328, 330, 390, 391, 392, 430, 461, 562, and six hours of electives in Art.

The course requirements for a minor (non-teaching) in Art are ART 102, 103, 390 or 391 or 392, and nine hours of electives in Art.

The course requirements for a minor (teaching) in Art are ART 102, 103, 390 or 391 or 392, 430, and nine hours of electives in Art.

The Art Department, in cooperation with the Graduate School and the College of Education, also offers an emphasis in Art applying toward the M.A. degree in Education. The regulations for the M.A. degree in Education may be found in the College of Education section of the Graduate Bulletin.

Curriculum for a major in Art (teaching). The first two years of this curriculum may be found in the Central University College section.

Courses for the last two years are as follows:

Junior	**Hours**	**Senior**	**Hours**
ART 227 or 327 or 328	3	ART 430, 461, 562	9
ART 229 or 235 or 329 or 335	3	EDU 462, 463	14
ART 390, 391	6	Electives (minor)	9
EDU 317	4		
ENG 209 or 211	3		
Social Science Elective	3		
Science or Math Electives	6		
Electives (Minor)	3		
	31		32

Curriculum for a major in Art (non-teaching). The first two years of this curriculum may be found in the Central University College section.

Courses for the last two years are as follows:

Junior	**Hours**	**Senior**	**Hours**
ART 330, 390, 391	9	ART 392, 562	6
ENG 209 or 211	3	Approved Electives	18
Science or Math Elective (U.D.)	6	Electives (minor)	9
Approved Electives	7		
Elective (minor)	6		
	31		33

Curriculum for an area in Art (teaching). The first two years of this curriculum may be found in the Central University College section.

Courses for the last two years are as follows:

Junior	Hours	Senior	Hours
ART 327 or 328	3	ART 392, 430, 461, 562	12
ART 329 or 335	3	EDU 462, 463	14
ART 330, 390, 391	9	Electives (ART)	6
EDU 317	4		
ENG 209 or 211	3		
Social Science Elective	3		
Science or Math Electives	6		
	31		32

ART

ART 100. Drawing I. **Three hours. I.**

An introduction to the basic principles of drawing, placing emphasis on design with value, line, and texture.

ART 101. Drawing II. **Three hours.** II.

Prerequisite: ART 100.

A continuation of Drawing I; observation of natural forms.

ART 102. Design. Two-Dimensional. **Three hours.** I.

An introduction to the abstract characteristics of design with color, line, and texture.

ART 103. Design, Three-Dimensional. **Three hours.** II.

An introduction to the methods, materials, and concepts related to the control of space.

ART 117. Drawing and Design. **Three hours.** I, II.

An introduction to the basic knowledges and skills in art through the use of pencil, tempera, water color, and colored chalks; emphasis placed upon the development of an understanding and appreciation of the principles of creative design in the visual arts.

ART 200. Art Appreciation: Orientation. **Three hours.** I, II.

Designed to acquaint the student with the visual arts and their purposes, with emphasis placed upon the ways and means available to the artist in his production. Not open to art majors or minors.

ART 202. Ceramic and Ceramic Sculpture. **Three hours. A.**

Prerequisite: ART 117.

Introductory experiences with ceramic forming methods, decorating techniques, and materials. Emphasis placed upon designing as creative problem solving.

ART 203. Painting I. **Three hours.** I.

Prerequisite: ART 101, 102.

Design with color, line, and texture; with emphasis on color.

ART 204. Painting II. **Three hours.** II.

Prerequisite: ART 203.

Problems in color, line, and texture as they relate to painting media.

ART 227. Sculpture: The Additive Process. **Three hours.** I, II.

Prerequisite: ART 103.

Development of concepts related to the additive process of sculpture: plasticine, clay, plaster, and wax.

ART 229. Crafts, Clay. **Three hours.** A.

Prerequisite: ART 103.

Application of clay to design problems involving aesthetic value (function) and procedure in the making of fine objects.

ART 235. Crafts, Wood. **Three hours.** A.
Prerequisite: ART 103.
Application of wood to design problems involving asthetic value (function) and procedure in the making of fine objects.

ART 317. Lettering and Poster Design. **Three hours.** A.
Application of art principles in the production of hand lettering, lettering structure, spacing, and poster design.

ART 321. Drawing and Illustration. **Three hours.** A.
Prerequisite: ART 117.
The illustration of ideas, with special consideration given to perspective and pictorial composition using pencil, charcoal, water color and ink.

ART 322. Color and Design. **Three hours.** A.
Prerequisite: ART 117.
Color theory as related to pigments and sensation, practical color notation, and application of color in design.

ART 327. Sculpture: The Constructive Process. **Three hours.** A.
Development of concepts related to the constructive process of sculpture: wood, metal, plaster, and related materials.

ART 328. Sculpture: The Subtractive Process. **Three hours.** A.
Development of concepts related to the subtractive process of sculpture: wood, stone, and related materials.

ART 329. Crafts, Metals. **Three hours.** A.
Prerequisite: ART 103.
Application of metal to design problems involving aesthetic value (function) and procedure in the making of fine objects.

ART 330. Graphic. **Three hours.** I.
Prerequisite: ART 101, 102.
Basic experiences in relief, intaglio, and planographic printmaking.

ART 335. Crafts, Fabric. **Three hours.** A.
Prerequisite: ART 102.
Application of fabric to design problems involving aesthetic value (function) and procedure in the making of fine objects.

ART 360. The Art Process and Materials in the Elementary School. **Three hours.** I, II.
Prerequisite: Open Only to Junior Elementary Education Majors.
A diversified inquiry into art materials, process and procedures in the elementary school.

ART 361. Art Education in the Elementary School. **Three hours.** I, II.
An inquiry into art education as an integral part of the total school experience and its implications for fostering creative growth and development within the child. Not open to art majors or minors.

ART 390. Survey of Art History. **Three hours.** I, II.
The development of art and architecture from the Stone Age through the Early Middle Ages.

ART 391. Survey of Art History. **Three hours.** I, II.
The development of art and architecture from the Late Middle Ages through the Baroque in France and England.

ART 392. Survey of Art History. **Three hours.** I, II.
The development of art and architecture from Neo-Classicism and Romanticism through Contemporary.

ART 430. Materials Inquiry in Art Education. **Three hours.** I.
Prerequisite: Open Only to Senior Art Students Who Plan to Teach.
A diversified inquiry into art materials and processes in the elementary and secondary schools.

ART 461. Art in the Secondary School. **Three hours.** I, II.
Prerequisite: Open Only to Senior Art Students Who Plan to Teach.
Emphasis placed on: relation of adolescent maturation levels and visual art experiences; planning for, organization and philosophy of, art education in the high school.

ART 521. Advanced Drawing. **Three hours.** I.
Prerequisite: ART 100, 101.
Designed to meet the needs of students who wish to develop further their skill in, and understanding of, drawing.

ART 522. Advanced Painting. **Three hours.** II.
Prerequisite: ART 203, 204.
Designed to meet the needs of students who wish to further develop their skill in, and understanding of, painting.

ART 560. Art Workshop for Elementary Teachers. **Three hours.** A.
Prerequisite: Teacher Experience.
Current art processes, motivation, recent research and publications, and philosophies of art education in the elementary school.

ART 562. Aesthetics and Criticism. **Three hours.** I, II.
Prerequisite: ART 390, 391.
The study of the formal analysis, description and criticism of works of art.

ART 563. Problems in Art. **Three hours.** I, II.
Continuation of study begun in regular departmental courses.
Prerequisite: All departmental courses in problem area identified. Limited to seniors and graduate students. May be repeated twice.

GRADUATE COURSES

ART 601. Art Appreciation: Great periods and Their Influences. **Three hours.** A.
Prerequisite: Six hours in Art.
An examination of the arts and ideas which influenced the great periods of development in the western world.

ART 602. The Art Program in the Public School. **Three hours.** A.
Prerequisite. Six hours in Art.
An analysis of the history of art education in the public schools coupled with a study related to planning and organization of contemporary art education programs.

BIOLOGY (BIO)

H. H. LaFuze, Chairman; Batch, Branson, Dale, Fulton, Henderson, Johnsten, S. Jones, Keefe, Larance, Lozier, M. McGlasson, Rudersdorf, Schroeder, D. Smith, J. Wallace, Whitt, Jr.

The Department of Biology offers several different curricula for students interested in professions related to Biology. A student may major in biology, botany, zoology or wildlife management and may plan his curriculum with his counselor for a number of different professions.

Courses common to all curricula are BIO 111, 131, 141 and 490, and CHE 101, 102 or 111, 112. A total of ten courses in Biology amounting to 32 to 35 semester hours constitute the minimum requirements for a major in any curriculum. Supporting courses totaling 19 to 32 semester hours must also be taken in other sciences and mathematics. The first two years of these curricula may be found in the Central University College section of this catalogue.

Courses for the last two years in a teaching curriculum are as follows:

Junior	Hours	Senior	Hours
BIO*	10-12	BIO*	4-6
CHE 213, 361 or minor	9	CHE 362 or minor	5
PHY 131 or EDU 317	4-5	Humanities (Elective)	3
Humanities (Elective)	9	EDU 317 or PHY 132	4-5
		EDU 462, 463	14
		BIO 471	3
	33-36		33-36

*One course must be elected from each line and two additional courses selected at large:

BIO 221, 242, 521, 522, 523, 525, 541, 546, 547
BIO 315, 514
BIO 528, 548, 549
BIO 316, 335, 542, 553, 554, 555, 556, 557, 558, 561
BIO 490

Courses for the last two years in a non-teaching curriculum are as follows:

Junior	Hours	Senior	Hours
BIO*	10	BIO*	6
CHE 361, 362 or minor	10	PHY 131 or GLY 210	5
Humanities	6	Humanities	3
Electives	4	Electives and/ or minor	16
	30		30

*BIO 490 and six courses in biology selected in consultation with an advisor for a specific curriculum from at least three different lines:

BIO 221, 242, 521, 522, 523, 525, 541, 546, 547
BIO 315, 514
BIO 528, 548, 549
BIO 316, 335, 542, 553, 554, 555, 556, 557, 558, 561

Curriculum for a Minor in Biology.

A student may minor in Biology by completing seven of the ten courses required for a major, and by completing CHE 111 and 112, or the equivalents.

Curriculum for a Major in Wildlife Management.

The major in Wildlife Management prepares students for professional employment as wildlife specialists with natural resource management agencies at the state and federal levels, and with private companies. Exceptional students in this program will be qualified for graduate work in Wildlife Management. Students will be required to attend the summer term at the conclusion of their junior year to study wildlife and wildlife management under field conditions.

Junior	Hours	Senior	Hours
BIO 382, 484	7	BIO 489 (1)	5
BIO 335	3	BIO (2)	7-8
CHE 213	4	BIO (3)	9-11
AGR 240	3	Electives	7-12
MAT 109, 207	8		
Humanities (Electives)	6		
	31		32

(1) BIO 489 must be taken in the summer following the completion of 80 semester hours.

(2) Two courses selected from BIO 587, 588 or 589.

(3) BIO 490 and one course selected from BIO 315, 336 or 547, and one from BIO 553, 554, 555 or 556 and one from BIO 558 or 561.

Opportunities for Graduate Study in Biology.

The Department of Biology offers major work for the degree of Master of Science in the areas of morphology, anatomy, physiology, field biology, ecology and wildlife; and for the degree of Masters of Arts in Education for secondary teachers in science. It also offers minor work to students taking major work in other departments.

The section under Graduate School in this catalogue describes the general requirements for admission to Graduate School, and the **Graduate Bulletin** gives more complete description of the requirements for each of the degrees. The prospective graduate student in Biology should obtain a copy of **Introduction to the Graduate Programs in Biology** from the office of Department of Biology. This guide provides detailed information about the programs of the department, and the student will be held responsible for the knowledge of the material.

Prerequisite to graduate work is the completion of a major or equivalent in biology at the undergraduate level, together with supporting work in other sciences.

The requirements for completing the degrees differ but both degrees include the completion of 30 semester hours (of which six may be transferred from another institution, subject to the approval of the Department of Biology and the Graduate School.) The curriculum is determined by the advisory committee of each respective student. The chairman of the Department of Biology serves as the student's advisor until his committee is appointed.

BIOLOGY (BIO)

BIO 111. (Formerly BIO 131 and 141 in part). Biology. **Four hours.** I, II.

Cellular and molecular biology; general organization, physiology and ecology of organisms; growth, development and reproduction; principles of inheritance, classification and evolution. Three lecture and two laboratory hours.

BIO 131. (Formerly BIO 121, 131, 132.) Botany. **Four hours.** I, II.

Structure and functions of vascular plant organs, and morphology of representatives of the plant kingdom. Two lecture hours and four laboratory hours.

BIO 141. (Formerly BIO 141, 142.) Zoology. **Four hours.** I, II.

General morphology and life histories of representatives of animal phyla; structure and function of vertebrate systems. Two lecture and four laboratory hours.

BIO 171. Human Anatomy and Physiology. **Four hours.** II.

Credit does not apply toward a major or minor in biology.

Prerequisite: One semester of chemistry.

Anatomy and physiology of the human essential to health related professions. Two lecture and four laboratory hours.

BIO 204. Birds of Kentucky. **Two hours.** II, S.

Credit does not apply toward a major or minor in biology.

A popular consideration of the birds in general of the eastern and central United States from the Atlantic Coast to the 100th meridian in the Great Plains. Special emphasis on the birds of Kentucky and in particular the birds of the local area. Field trips required. One lecture and two laboratory hours.

BIO 221. (Formerly BIO 303). Microbiology. **Four hours.** I, II.

Prerequisite: BIO 111 and CHE 111, or equivalents.

The morphology, classification and physiology of Protista with emphasis on bacteria, yeast, viruses and molds. Importance of Protista to man and his environment. Methods of culture and study, media, sterilization and staining. Special project required. Two lecture, four laboratory hours.

BIO 242. (Formerly BIO 27, 28, 342). Comparative Anatomy. **Five hours.** I, II.

Prerequisite: BIO 111, 141.

Chordate characteristics and taxonomy; comparative anatomy of the principal organ systems: emphasis in laboratory upon lower chordate, fish, amphibian, bird and cat. Three lecture and four laboratory hours.

BIO 273. Applied Microbiology. **Four hours.** I.

Prerequisite: BIO 171 and CHE 104 or equivalents.

Credit does not apply toward a major or minor in biology.

Microbiology for health related professions. A study of micro-organisms as related to health and humans, including pathogenic forms. Two lecture, four laboratory hours.

BIO 301. (Formerly BIO 29, 29h, 219, 272, 279). Human Physiology. **Three hours.** I, II.

A general education course for non-science majors. Functions of the different systems of the human body in relation to structure and environment. Three lecture hours.

BIO 315. Genetics. (Formery BIO 35, 325, 515). **Three hours.** I, II.

Prerequisite: BIO 111, 131, 141.

Laws governing inheritance, variations and evolution in plants, animals and man; role of heredity in the improvement of cultivated plants, domesticated animals and the human race. Three lecture hours.

BIO 316. (Formerly BIO 451 and 517). Ecology. **Four hours.** I.

Prerequisite: BIO 111, 131, 141.

Relation of plants and animals to their environment. Field trips required. Two lecture hours, four laboratory hours.

BIO 317. Conservation of Wildlife Resources. **Three hours.** I.

Prerequisite: BIO 131, 141, or GSC 161, 162.

Introduction to the principles and practices of conservation of plants and animals; requirements and values of wildlife resources; history and agencies of conservation. Three lecture hours.

BIO 335. Plant Systematics. **Three hours.** II.

Prerequisite: BIO 111, 131.

Identification, classification and phylogeny of vascular plants; survey of major divisions and families; principles of taxonomy; field trips required. One lecture hour, four laboratory hours.

BIO 336. (Formerly BIO 31, 536.) Dendrology. **Two hours.** A.

Prerequite: BIO 111, 131.

Identification and classification of local trees and shrubs; key construction. Four laboratory hours.

BIO 377. Applied Physiology I. **One hour.**

Prerequisite: A major or minor in speech therapy and concurrent registration in BIO 301.

Laboratory experiments with emphasis on anatomy, physiology and neurology of speech and hearing. Two laboratory hours.

BIO 378. (Formerly BIO 272 in part.) Applied Physiology II. **One hour.** I, II.

Prerequisite: A major in physical education or health and concurrent registration in BIO 301.

Experiments in physiology with emphasis on the relation of exercise to muscular, nervous, respiratory and cardiovascular systems. Two laboratory-discussion hours.

BIO 379. Applied Physiology III. **One hour.** I, II.

Prerequisite: A major in home economics and concurrent registration in BIO 301.

Experiments in physiology with emphasis on the functions of the circulatory, respiratory, digestive and excretory systems. Two laboratory-discussion hours.

BIO 403. (Formerly BIO 310.) Human Heredity and Eugenics. **Three hours.** II.

Credit does not apply toward a major in Biology.

Inheritance in humans, including its implications upon society and the human race. Three lecture hours.

BIO 404. (Formerly BIO 433.) Economic Plants. **Three hours.** I.

Credit does not apply toward a major in biology.

The economic importance of plants and plant products; utility of plants in relation to wood products, textiles, foods, condiments, beverages, drugs, poisons; role of plants in ornamentation, conservation and world events. Three lecture hours.

BIO 471. The Teaching of Biology. **Three hours.** I, II.

Prerequisite: 24 hours of biology and approval of chairman of department.

Materials and methods in teaching biology in secondary schools; modern approaches to biology; organization, planning, directed observation, execution and evaluation of the classroom and laboratory activities; sources, preparation, and use of biological materials; planning construction, care and use of equipment; conduction of field trips.

BIO 490. (Formerly BIO 599). Biology Seminar. **One hour.** I, II.

Prerequisite: Major in biology and five semesters of college credit.

Required of all biology majors. Members of the faculty and majors meet weekly for presentation and discussion of classical and current developments in various fields of biology. One discussion hour.

BIO 511. (Formerly BIO 445.) Microtechnique. **Two hours.** I, II.

Prerequisite: BIO 111, 131, 141.

Technique of preparing plant and animal tissues for microscopic study. Four laboratory hours.

BIO 514. Evolution. **Three hours.** A.

Prerequisite: BIO 111, 131, 141.

General study of the evidences of evolution and of the theories that have been proposed to account for it. Three lecture hours.

BIO 521. (Formerly BIO 421.) Morphology of Non-Vascular Plants. **Three hours.** I.

Prerequisite: BIO 111, 131.

The morphology, anatomy, reproduction, development and unusual biological activities of the algae, liverworts and mosses. One lecture and four laboratory-discussion hours.

BIO 522. (Formerly BIO 422.) Morphology of Vascular Plants. **Three hours.** II.

Prerequisite: BIO 111, 131.

The morphology, anatomy, reproduction, development and geological history of psilophytes, club mosses, horsetails, ferns, cycads, conifers and flowering plants. One lecture and four laboratory-discussion hour.

BIO 523. Mycology. **Three hours.** II in odd years.

Prerequisite: BIO 111, 131.

The morphology, physiology, taxonomy and economic importance of fungi. Field trips are required. One lecture and four laboratory-discussion hours.

BIO 525. Plant Anatomy. **Three hours.** I in odd years.

Prerequisite: BIO 111, 131.

Anatomy and histology of vascular plants, cells, tissues, organs, structures as to ontogenetic and phylogenetic developments and adaptive modification. One lecture hour and four laboratory-discussion hours.

BIO 528. (Formerly BIO 32, 334.) Plant Physiology. **Four hours.** A.

Prerequisite: BIO 111, 131, CHE 111, 112 or equivalent.

The chemical, physical and biological processes which occur in vascular plants. Two lecture and four laboratory hours.

BIO 541. (Formerly BIO 44, 446.) Invertebrate Zoology. **Four hours.** II in even years.
Prerequisite: BIO 111, 141.
Invertebrates: specific and comparative morphology, physiology, embryology, evolution and life histories. Two lecture and four laboratory hours.

BIO 542. Natural History of Invertebrates. **Three hours.** I. in even years.
Prerequisite: BIO 111, 141.
Collection, systematics, distribution, behavior, ecology, and life histories of terrestrial and freshwater invertebrates, especially of Kentucky. One lecture hour and four laboratory hours.

BIO 546. (Formerly BIO 446.) Histology. **Three hours.** I, II.
Prerequisite: BIO 111, 141.
The microscopic study of animal tissues and an introduction to organology. One lecture and four laboratory hours.

BIO 547. (Formerly BIO 47, 347.) Embryology. **Four hours.** I, II.
Prerequisite: BIO 111, 141.
Detailed study of the embryology of the starfish, frog, and chicken, with some consideration of mammalian embryology. Two lecture and four laboratory hours.

BIO 548. (Formerly BIO 48, 481.) Animal Physiology. **Four hours.** I, II.
Prerequisite: BIO 111, 141; CHE 111, 112 or equivalent.
Detailed study of the chemistry and physics of the physiological activities of animals. Two lecture and four laboratory hours.

BIO 549. Endocrinology. **Three hours.** A.
Prerequisite: BIO 548.
Basic principles of endocrinology; comparative morphology and functions of endocrine glands with emphasis on the hormonal regulation of physiological processes of animal phyla; experimental procedures in endocrinology. Two lecture hours, two laboratory hours.

BIO 553. Mammalogy. **Three hours.** I in odd years.
Prerequisite: BIO 111, 141.
Emphasis placed on the ecological, evolutionary and taxonomic aspects of mammalian science. Field work is a regular part of each semester's work. Added duties expected of graduate students. One lecture hour and four laboratory hours.

BIO 554. (Formerly BIO 38, 344.) Ornithology. **Three hours.** II in even years.
Prerequisite: BIO 111, 141.
Avian biology with emphasis on field identification of local avifauna, anatomy, physiology, ecology, evolution, migration, economic importance, distribution and behavioral patterns. A special investigative study required for all graduate students. Some early morning field trips required. Two lecture hours and four laboratory hours per week.

BIO 555. (Formerly BIO 37, 343.) Entomolgy. **Three hours.** A.
Prerequisite: BIO 111, 141.
Taxonomy, identification, life histories, physiology, economic importance, methods of control and collection of insects, with emphasis on local forms. One lecture and four laboratory hours.

BIO 556. Herpetology. **Three hours.** II in odd years.
Prerequisite: BIO 111, 141.
The natural history of the amphibians and reptiles including taxonomy, general ecology, behavior, distribution, breeding habits and food habits, with special emphasis on the species of Kentucky. Two lecture hours, two laboratory hours.

BIO 557. Ichthyology. **Three hours.** II in even years.
Prerequisite: BIO 111, 141.
Internal and external morphology, taxonomy, life histories, ecology, phylogeny, methodology of harvesting and economic importance of the fishes of North America. Two lecture hours, two laboratory hours.

BIO 558. Limnology. **Three hours.** II in odd years.
Prerequisite: BIO 111, 131, 141; CHE 111, 112 recommended.
Analysis of the geological, physical, chemical, and biological aspects of lentic and lotic inland acquatic environments. One lecture hour, four laboratory-discussion hours.

BIO 561. Fisheries Biology. **Four hours.** A.
Prerequisite: BIO 557.
Study of the anatomy, life histories, conservation, methods of harvest, economic importance and ecological interactions of fishes. Two lecture hours and six laboratory hours.

BIO 571. (Formerly BIO 401.) Biology for High School Teachers I. **Four hours.** A.
Prerequisite: One year of college biology.
Basic principles of botany and zoology of special interest to in-service teachers of science; modern concepts and recent discoveries in biology; new approaches to biology at high school level. Lecture two hours, laboratory and discussion four hours.

BIO 572. (Formerly BIO 402.) Biology for High School Teachers II. **Four hours.** A.
A continuation of BIO 571. Lecture two hours, laboratory and discussion four hours.

BIO 598. (Formerly BIO 498.) Special Problems. **One to three hours.** A.
Prerequisite: Senior or graduate standing and permission of the department.
The student may repeat the course for a maximum total of four hours. A study of a special problem, special biological techniques or group of organisms. A minimum of three laboratory hours per credit hour.

WILDLIFE MANAGEMENT

BIO 381. Principles of Wildlife Management. **Three hours.** II.
Prerequisite: BIO 316.
Basic principles, identification, distribution, population dynamics and analysis, and game mapping. Three lecture hours.

BIO 382. Wildlife Techniques. **Four hours.** I.
Prerequisite: BIO 381.
Techniques used in habitat evaluation, census methods, management, economic status, ecology and life histories of selected regional species. Two lecture hours, four laboratory hours.

BIO 484. Wildlife Law and Administration. **Three hours.** II.
Prerequisite: BIO 382.
The history and practice of wildlife and its enforcement, the administrative methods and policies of federal and state agencies responsible for wildlife. Three lecture hours.

BIO 489. Field Studies in Wildlife. **Five hours.** S.
Prerequisite: Approval of Chairman of Department of Biology.
Required of all Wildlife Management majors at the conclusion of their junior year.
Field studies performed under the jurisdiction of faculty and a regional natural resource agency. Directed experiences in existing wildlife situations may involve living under wilderness conditions. A minimum of six weeks in the field, the remainder of the eight weeks in class on campus.

BIO 585. Regional Wildlife Ranges. **Three hours.** I in odd years.
Prerequisite: BIO 382.
Distribution and management of game and fish resources as determined by regional climate, physiographic, vegetative, and land-use factors. Three lecture hours.

BIO 587. Management of Upland Game. **Three hours.** II in odd years.
Prerequisite: BIO 382.
Life histories, distribution, environmental needs, and plans for the management of upland game birds and small mammals. Field trips are required. Two lecture and two laboratory hours.

BIO 588. Management of Waterfowl and Fur-Bearers. **Four Hours.** II in even years.
Prerequisite: BIO 382.
Taxonomy, life histories, distribution, environmental needs and plans for management of waterfowl and small mammals the pelts and carcasses of which are of economic value. Three lecture and two laboratory hours.

BIO 589. Management of Big Game. **Four hours.** I in even years.
Prerequisite: BIO 382.
Life histories, distribution, numerical variation, enemies, and management activities for big game animals. Field trips required. Three lecture and four laboratory hours.

GRADUATE COURSES

BIO 601. Literature of Biology. **Two hours.** A.
Directed readings in biology designed to acquaint the student with the major sources of literature, the delimitation of problems, note taking and the making of bibliographies. Two lecture-discussion hours.

BIO 611. Quantitative Biology. **Two hours.** A.
Statistical analysis of biological data. Students participate in the taking of data and processing data by the use of well-established statistical techniques. Students planning graduate programs should seriously consider this course. Four laboratory-discussion hours.

BIO 612. Cytology. **Three hours.** A.
The cell, its structure and physiology; nuclear and cell division; differentiation; role of the cell in reproduction. Two lecture hours, three laboratory hours.

BIO 613. Cytogenetics. **Three hours.** A.
Aspects of the structure and physiology of the cell which directly affect inheritance and evolution. Two lecture hours, three laboratory hours.

BIO 616. Biogeography. **Two hours.** A.
Ecological, faunistic and floristic distribution on a world-wide basis. Theory of distribution pathways as regards final distribution. Two lecture hours.

BIO 625. Plant Morphogenesis. **Three hours.** A.
General study of plant growth with respect to cells and meristems; phenomena of morphogensis, correlation, polarity, symmetry, differentiation, regeneration, tissue mixtures; morphogenetic factors — light, water, temperature chemical, genetical. Three lectures per week.

BIO 627. Plant Ecology. **Three hours.** A.
Prerequisite: BIO 316 or consent of instructor.
Plant life in relation to natural habitats and environmental factors; emphasis on instrumentation and methodology for ecological studies. Two lecture hours, three laboratory hours.

BIO 635. Advanced Plant Systematics. **Three hours.** A.
Principles of the systematics of vascular plants with emphasis on comparative and experimental techniques. Consideration of theory and systems of phylogeny, classification and nomenclature. One lecture hour and four laboratory hours.

BIO 645. Physiological Vertebrate Ecology. **Three hours.** II in odd years.
Prerequisite: BIO 548.
Comparative study of physiological mechanisms of vertebrates in response to changing environmental conditions. Two lecture hours and three laboratory hours per week.

BIO 647. Animal Ecology. **Three hours.** A.
Prerequisite: BIO 316 or consent of instructor.
Animals and their relationships to plants and to their environment. Physiological ecology, techniques for measurement of environmental factors, and methods for studying terrestrial and aquatic animal communities stressed. Two lecture hours, three laboratory hours.

BIO 649. Experimental Endocrinology. **Three hours.** A.
Prerequisite: CHE 361; BIO 548.
The bioassay, synthesis, metabolism and mechanism of action of hormones emphasized through various experimental designs. One lecture hour, four laboratory hours.

BIO 653. Advanced Mammalogy. **Three hours.** A.
Emphasis placed on population dynamics, geographic distribution, polymorphism, taxonomy, and speciation. Each student will conduct an advanced research problem and carry out class assignments specifically oriented to the graduate student level. One lecture hour, four laboratory hours.

BIO 671. Biology for Elementary Teachers. **Three hours.** A.
Experiments and demonstrations essential to the teaching of biological concepts of science in grades K through 6. Six discussion-laboratory hours.

BIO 690. Graduate Seminar. **One hour.** I, II, S.
Required of all graduate students; to be repeated once.
Presentation and discussion by the student of topics related to his field of investigation.

BIO 691. (Formerly BIO 571.) Thesis Research. **Two hours.** A.
Prerequisite: Approval by chairman of biology department.
This course may be repeated for a maximum of six hours of credit.
Research in biology followed by the preparation of a thesis under the guidance of a member of the biology faculty.

CHEMISTRY (CHE)

E. E. Byrn, Chairman; Bendall, Chaney, Davidson, Luts, Meisenheimer, Salyer, Smiley, Taylor, R. Thompson.

A student may major in Chemistry (non-teaching) by completing CHE 111, 112, 213, 361, 362, 471, 472, 514, 525, 550, 565, 580; MAT 109, 111, 112, 213; PHY 201 and 202; GER 101, 102, 201 and 203. A year of Russian or French and additional courses in chemistry, physics, and mathematics are recommended.

A student may major in Chemistry (teaching) by completing CHE 111, 112, 213, 361, 362, 471, 472, and five elective hours in Chemistry in courses numbered above 500. In addition, PHY 201 and 202; MAT 109, 111, 112, and 213 are required. A year of German is recommended.

A student may minor in Chemistry by taking CHE 111, 112, 213, and seven hours of upper division Chemistry courses.

The first two years of the curriculum for a major in chemistry may be found in the Central University Section.

Courses for the last two years of the curriculum for a major in chemistry (non-teaching) are as follows:

Junior	**Hours**	**Senior**	**Hours**
CHE 361, 362, 471, 472	17	CHE 514, 525, 550, 565, 580	12
ENG 211, 212, or 209, 210	6	Electives*	16
GSS 246, 247	6		
	29		28

*Electives must include six approved hours of social sciences and three hours of biological science.

Courses for the last two years of the curriculum for a major in chemistry (teaching) are as follows:

Junior	**Hours**	**Senior**	**Hours**
ENG 211, 212, or 209, 210	6	CHE electives	5
CHE 361, 362, 471, 472	17	EDU 462, 463	14
EDU 317	4	SCI 410	3
Electives*	3	Electives*	10
GSS 246, 247	6		
	36		32

*Electives must include six approved hours of social science, and three hours of biological science.

Graduate Study in Chemisty

The Chemistry Department offers the degree of Master of Science with a major in chemistry. The Chemistry Department in cooperation with the Graduate School and the College of Education also offers an emphasis in chemistry applying toward the Master of Arts degree in education. The regulations for these advanced degrees may be found in the **Graduate Bulletin** of Eastern Kentucky University.

CHEMISTRY (CHE)

CHE 101. General Chemistry I. **Four hours.** I, II.

Designed for students who will take only one year of chemistry. Basic principles of chemical bonding, structure of matter, chemical equilibrium, and descriptive inorganic chemistry. Three lecture and two laboratory hours.

CHE 102. General Chemistry II. **Five hours.** I, II.

Prerequisite: CHE 101.

Continuation of CHE 101, emphasis on elementary organic chemistry, biochemistry and industrial chemistry. Three lecture and four laboratory hours.

CHE 104. Chemistry for Allied Health Professions. **Four hours.** I.

Topics in general, organic, and biological chemistry pertinent to allied health professions. Nature of matter; solutions and acidity; important functional groups of organic chemistry; and carbohydrates, lipids, and proteins and their metabolism. Three lecture and two laboratory hours.

CHE 111. Introductory Chemistry I. **Four hours.** I, II.

First semester of a three-semester sequence designed to prepare the student for further study in chemistry. Topics include nomenclature, structure of matter, stoichiometry, chemical bonding, and chemical change. Three lecture and two laboratory hours.

CHE 112. Introductory Chemistry II. **Five hours.** I, II.

Prerequisite: CHE 111.

Continuation of CHE 111. Coordination compounds, descriptive inorganic chemistry, solution chemistry, and analytical chemistry. Three lecture and four laboratory hours.

CHE 213. Introductory Chemistry III. **Four hours.** I, II.

Prerequisite: CHE 112.

Continuation of CHE 112, emphasis on analytical chemistry, thermodynamics, and kinetics. Three lecture and three laboratory hours.

CHE 361. (Formerly CHE 310.) Organic Chemistry. **Five hours.** I.

Prerequisite: CHE 213.

Structural theory; hydrocarbons; introduction to stereochemistry; carbonium ion theory; aromatic compounds; applied absorption spectroscopy. Three lecture and six laboratory hours.

CHE 362. (Formerly CHE 312.) (formerly called Advanced Organic Chemistry) Organic Chemistry. **Four hours.** II.
Prerequisite: CHE 361.

Organic halides; alcohols and ethers; carboxylic and sulfonic acids; carbonyl compounds; amines and diazonium salts; polyfunctional compounds. Three lecture and three laboratory hours.

CHE 470. (Formerly CHE 570.) Physical Chemistry for the Biological Sciences. **Four hours.** II.
Prerequisite: CHE 213.

Recommended for premedical students and students in the biological sciences or related disciplines. Topics considered: states of matter, colligative properties of solutions, thermodynamics, equilibrium, electro-chemistry, colloids, and reaction kinetics. (Chemistry majors will take chemistry 471 and 472.) Three lecture and three laboratory hours.

CHE 471. (Formerly CHE 571 and 415.) Physical Chemistry. **Four hours.** I.
Prerequisite: CHE 213, 361; MAT 213 (or concurrent enrollment); PHY 202.

The thermodynamic properties of physicochemical systems; free energy and equilibria; kinetic theory of gases and reaction rates. Three lecture and three laboratory hours.

CHE 472. (Formerly CHE 572 and 416.) Physical Chemistry. **Four hours.** II.
Prerequisite: CHE 471; MAT 213.

Electrochemical processes; electrolytic solutions and activity coefficients; atomic and molecular structure; spectroscopy; partition functions and thermodynamic relations. Three lecture and three laboratory hours.

CHE 514. (Formerly CHE 401.) Chemical Literature. **One hour.** A.
Prerequisite: CHE 361, 472.

Introduction to the use of fundamental periodicals, abstract journals, hand-books, review series and encyclopedias of chemistry. One lecture hour.

CHE 520. Advanced Analytical Chemistry. **Three hours.** A.
Prerequisite: CHE 362 and 472.
Advanced study of analytical methods usually classified as non-instrumental. Precipitation studies, aqueous and non-aqueous solvents, titrations, liquid-liquid extractions, chromatography, ion exchange, kinetics in analytical chemistry, sampling, statistics. Three lecture hours.

CHE 525. (Formerly CHE 320 and 420.) Instrumental Methods. **Four hours.** A.
Prerequisite: CHE 362 and 472 (or concurrent enrollment).
Principles and uses of optical and electrical instruments in analysis. Colorimetric, spectrophotometric (including infra-red), conductometric, potentiometric, polarographic and chromatographic methods and determinations, methods of nuclear chemistry. Two lecture and six laboratory hours.

CHE 530. (Formerly CHE 313.) Biochemistry. **Three hours.** II.
Prerequisites: CHE 362, 471, or permission of instructor.
Chemistry, metabolism and biosynthesis of carbohydrates, proteins, lipids, and nucleoproteins, the action of vitamins, hormones and enzymes related to cellular metabolism and body processes. Three lecture hours.

CHE 545. Chemistry Laboratory and Demonstration Techniques. **Three hours.** A.
Prerequisite: Six semesters of undergraduate work in chemistry or permission of instructor.
Techniques of constructing and demonstrating apparatus to illustrate principles of chemistry. Primarily for high school science teachers. Two lecture and two laboratory hours.

CHE 550. (Formerly CHE 440.) Advanced Inorganic Chemistry. **Three hours.** I.
Prerequisite: CHE 472. (or concurrent enrollment)
Modern concepts of atomic nuclei, atomic structure, and classification of elements. Complexions and coordination compounds. Theories of bonding. Three lecture hours.

CHE 555. Inorganic Preparations. **Three hours. II.**
Prerequisite: CHE 550.

Techniques of crystallization, distillation, furnance methods, electrolytic processes and gas handling as involved in the synthesis of alloys, oxides, salts, coordination compounds, polyacids, anomalous salts, and colloids. One lecture and six laboratory hours.

CHE 560. Advanced Organic Chemistry. **Three hours.** A.
Prerequisite: CHE 362, 472.

Survey of new reactions and comprehensive study of reaction mechanisms. Three lecture hours.

CHE 565. Qualitative Organic Analysis. **Three hours.** A.
Prerequisite: CHE 362.

Identification of unknown organic substances through a systematic study of their physical and chemical properties and their chemical derivatives. One lecture and six laboratory hours.

CHE 580. (Formerly CHE 450.) (Formerly called Recent Advances in Chemistry). Seminar. **One hour.** I, II.
Prerequisite: Senior standing.

Presentation of significant developments from recent literature to members of the chemistry faculty and departmental majors. One weekly meeting. May be repeated for a total of two hours credit.

CHE 595. (Formerly CHE 430.) (Formerly called Research in Chemistry.) Introduction to Research. **Three to five hours.** I, II.
Prerequisite: CHE 361, 471.

Objectives and techniques of chemical research. Problems in all fields of chemistry.

GRADUATE COURSES

CHE 625. Spectroscopy. **Three hours.** A.
Prerequisite: CHE 525 or 472.

The origin of spectra; arc and spark spectra; excitation energies; flame photometry; emission methods; the photographic process; Raman and atomic absorption methods; mass spectroscopy. Two lecture and three laboratory hours.

CHE 626. Electroanalytical Chemistry. **Three hours.** A.
Prerequisite: CHE 525.

Study of the fundamental principles underlying potentiometric measurements and titrations, conductometric titrations, polarographic analysis, amperometric titrations, coulometric titrations, chronopotentiometry, and other electrochemical methods in analytical chemistry. Two lecture and three laboratory hours.

CHE 630. Advanced Biochemistry. **Three hours.** A.
Prerequisite: CHE 530.

Advanced study of metabolic processes and biosynthetic routes. Three lecture hours.

CHE 652. Chemistry of the Transition Elements. **Three hours.** A.
Prerequisite: CHE 550.

A detailed treatment of the chemistry of the transition elements, the lanthanides and actinides, including the structure of coordination complexes, bonding, reaction mechanisms, and preparations. Three lecture hours.

CHE 653. Chemistry of Solutions. **Three hours.** A.
Prerequisite: CHE 550.

Reactions and substances in aqueous and non-aqueous media. Three lecture hours.

CHE 655. Radiochemistry. **Three hours.** A.
Prerequisite: CHE 471.

The nature and uses of radioactive substances in chemistry. Radiolysis, isotope exchange, radiotracer applications; isotope dilution methods; applications to structural and kinetic studies, including solvent extraction and chromatography. Some demonstration experiments. Three lecture hours.

CHE 660. Organic Synthetic methods. **Three hours.** A.
Prerequisite: CHE 560.
Modern synthetic methods with an emphasis upon mechanism. Topics will include oxidation, reduction, Diels-Alder reactions, 1,3-dipolar addition and synthesis using carbene and aryne intermediates. Three lecture hours.

CHE 662. Quantum Organic Chemistry. **Three hours.** A.
Prerequisites: CHE 362 and 472 or permission of instructor.
The basic principles of molecular orbital theory and its application to organic chemistry. Three lecture hours.

CHE 663. Stereochemistry of Organic Compounds. **Three hours.** A.
A study of configurations and conformations of organic molecules and the influence of molecular structure on reactions. Three lecture hours.

CHE 670. Advanced Physical Chemistry. **Three hours.** A.
Prerequisite: CHE 472; MAT 453 recommended.
Introduction to quantum theory; simple quantum mechanical systems; energy levels and statistical mechanics; atomic and molecular structure. Three lecture hours.

CHE 671. Chemical Kinetics. **Three hours.** A.
Prerequisite: CHE 472.
Theory of rate processes; reaction order and molecularity; mechanisms of reaction. Three lecture hours.

CHE 673. Chemical Thermodynamics. **Three hours.** A.
Prerequisites: CHE 472, MAT 453.
Variables and state functions; entropy, enthalpy, and free energy in ideal and non-ideal systems; activity and fugacity; partial molal quantities and chemical potential; thermodynamic properties from spectroscopic data. Three lecture hours.

CHE 680. Graduate Seminar. **One hour.** I, II.
Presentation of significant developments in chemistry to members of the chemistry faculty and department majors. One weekly meeting. May be repeated for a maximum of two hours credit.

CHE 690. Graduate Literature Program. **Three hours.** I, II.
An extensive survey of the literature related to a specific research problem.

CHE 695. Graduate Research. **One to six hours.** I, II.
Laboratory research in one of the major areas of chemistry. May be repeated for a maximum of six credit hours.

DRAMA AND SPEECH (DRA & SPE)

R. G. King, Chairman; S. Harris, Meese, Melody, Patterson, Schneider and H. Thompson.

The Department of Drama and Speech offers four majors: Speech (teaching or non-teaching), Speech and Drama (teaching or non-teaching), Drama (non-teaching), and Speech Pathology and Audiology.

SPEECH MAJOR (TEACHING AND NON-TEACHING): 30 hours in addition to SPE 100, including SPE 205 or 400, 220, 240, 300, 330, 333 or 335, and 450.

SPEECH AND DRAMA MAJOR (TEACHING AND NON-TEACHING): 30 hours in addition to SPE 100, including SPE 240; SPE 450; SPE 205 or 220 or 300 or 330 or 333 or 335 or 400; three hours elective in Speech courses; DRA 110; DRA 130; DRA 440; DRA 500. For teaching majors, SPE 205 is recommended.

DRAMA MAJOR (NON-TEACHING): 30 hours in addition to SPE 100, including DRA 110, 130, 440, and 500; 6 hours general electives in theatre courses; 3 hours elected from practicum courses; 6 hours of electives in the desired area of theatre emphasis. SPE 240 and 340 may be included as drama electives. Supporting courses from other disciplines should be chosen in consultation with the advisor.

SPEECH PATHOLOGY AND AUDIOLOGY MAJOR: 34 hours in addition to SPE 100: SPE 270, 275, 360, 370, 373, 378, 380, 385, 450, 470, 475, 480.

The department offers three minors: Speech, Speech and Drama, and Drama.

SPEECH MINOR: 18 hours in addition to SPE 100, including SPE 240, 300, 450, and nine hours of electives in Speech courses.

SPEECH AND DRAMA MINOR: 18 hours in addition to SPE 100, including SPE 240, 450, and DRA 100, 110, 130.

DRAMA MINOR: 18 hours in addition to SPE 100, including DRA 100, 110, 130, 550 and 6 hours of electives in Drama courses.

The curriculum for the junior and senior years should be worked out in consultation with the advisor. The first two years of the curriculum may be found in the Central University College section.

DRAMA (DRA)

DRA 100. (Formerly DRA 222.) Forms and Philosophy of Theatre. **Three hours.** I, II.

Understanding and appreciating the arts of the theatre, development of dramatic forms and practices, consideration of the elements of contemporary theatrical practice from writing of the play through performance. Analysis of plays. Attendance at selected play productions and films required.

DRA 110. (Formerly DRA 242.) Technical Theatre. **Three hours.** A.

Problems of technical production dealing with the scenic process: use of materials, methods of construction and handling of scenery, fabrication and construction of properties. Practical experience in the university theatre required.

DRA 130. (Formerly DRA 262.) Acting I. **Three hours.** A.

Stage movement, characterization, and projection through exercises in improvisation and pantomime.

DRA 210. (Formerly DRA 243.) Stage Design. **Three hours.** A.

Prerequisite: DRA. 110.

Principles and problems of scenic and lighting design through assignments in various styles and periods; practice in research and techniques of rendering and preparation of working drawings and models; basic theories of stage lighting from a technical and aesthetic viewpoint and practice in planning of light plots for individual plays.

DRA 215. Make-up. **Two hours.** A.

All types of theatrical make-up.

DRA 230. (Formerly DRA 264.) Acting II. **Three hours.** A.

Prerequisite: DRA 130.

Continuation of Acting I. Emphasis on scenes culminating in presentation of plays in class.

DRA 310. Technical Production. **One hour** (may be repeated for a total of three hours). I, II.
Prerequisite: DRA 110.
Study and practice of technical production through participation in directed departmental activities.

DRA 315. Stage Costume. **Three hours.** A.
Design and execution of theatrical costumes with emphasis on originality, color and line. Attention given to costumes of various periods and styles.

DRA 330. Rehearsal and Performance. **One hour** (may be repeated for a total of three hours). I, II.
Prerequisite: DRA 130.
Study and practice of acting through participation in directed departmental productions.

DRA 400. Directed study in Aesthetics and Criticism of Drama. **One to three hours.** A.
Research proposal must be submitted in advance. Departmental permission required.

DRA 410. Directed study in Technical Theatre. **One to three hours.** A.
Proposal for project must be submitted one semester in advance. Departmental permission required.

DRA 430. Directed study in Performance. **One to three hours.** A
Directed projects in theatrical performance. Departmental permission required.

DRA 440. (Formerly DRA 240.) Directing I. **Three hours.** A.
Prerequisites: DRA 110, 130, 210, 500. Open only to majors.
Principles and techniques of play direction with demonstrations and exercises. Includes direction of a studio production.

DRA 500. History of Theatre. **Three hours.** A.
Intensive examination of development of theatre from primitive times to present. Includes Oriental and Occidental theatre.

DRA 540. Children's Theatre. **Three hours.** A.
Prerequisite: DRA 110, 130, 210.
Principles and practice of play production for children by adults or children.

DRA 545. Creative Dramatics. **Three hours.** A.
Principles and techniques of leading children in the creation of informal dramatic activities.

DRA 550. Play Production. **Three hours.** A.
Non-specialized course dealing with basic elements of play production; selection, casting, rehearsals, types of dramatic literature, styles of acting, elementary principles of set design and decoration, costuming, make-up, lighting, and house management. Primarily for prospective teachers who may direct dramatics. Open to speech and/or drama majors only with the consent of instructor.

SPEECH (SPE)

SPE 100. (Formerly SPE 131.) Oral Communication. **Three hours.** I, II.
Principles and practice of oral communication. Study of the process of communication; opportunity to reinforce that study through speaking.

SPE 150. (Formerly SPE 230.) Improvement of Voice and Articulation. **Three hours.** A.
Basic theory of speech production; drills for improvement of voice and articulation; adapted to students' individual speech needs.

SPE 205. Argumentation and Advocacy. **Three hours.** I.
Prerequisite: SPE 100.
Principles and practice of argument in logical discourse with attention to research, evidence, analysis, methods of attack and defense, organization of ideas, and presentation.

SPE 220. Communication in Groups. **Three hours.** II.
Prerequisite: SPE 100.
Principles and practice of group inquiry; investigation and analysis of problems in selected group situations.

SPE 240. (Formerly SPE 341.) Oral Interpretation of Literature I. **Three hours.** I.
Basic techniques of reading aloud; analysis of selections of prose and poetry; practice in reading aloud.

SPE 270. Basic Speech Science. **Three hours.** I.
Study of the anatomy, physiology, and neurology of the organs of respiration, phonation, articulation, resonation, and hearing.

SPE 275. Speech Pathology: A Survey. **Three hours.** II.
An introduction to the nature and causes of the major disorders of speech: articulation, voice, stuttering; speech problems associated with neural injury, anatomical anomalies, and hearing impairment.

SPE 290. Introduction to Radio and Television. **Three hours.** A.
Survey of the industry. Development of broadcasting; its responsibilities and job opportunities; organization of stations and networks; federal regulation and industry codes; technical aspects of radio and television; brief consideration of programming and production techniques; field trips to area radio and television stations.

SPE 300. (Formerly SPE 231.) Forms of Public Address. **Three hours.** I.
Prerequisite: SPE 100.
Principles and practice of contemporary forms of public address: professional deliberative, ceremonial, and social.

SPE 305. Great Speeches. **Three hours.** A.
A survey of great speeches from ancient times to the present: designed to establish a basis for judgment and appreciation of masterpieces of public speaking; analysis of selected texts.

SPE 315. (Formerly SPE 215.) Forensics. **One hour.** (May be repeated for a total of three hours.) I, II.
Prerequisites: SPE 205 and permission of instructor.
Study and practice of discussion and debate with required participation in intercollegiate forensic activities.

SPE 330. Rhetorical Theory. **Three hours.** A.
Study of selected theories of public address from the classical period to the modern era.

SPE 333. History and Criticism of Public Address: 18th and 19th Century Spokesmen. **Three hours.** A.
Study of selected eighteenth and nineteenth century speakers: critical analysis of selected speech texts.

SPE 335. History and Criticism of Public Address: 20th Century Spokesmen. **Three hours.** A.
Prerequisite: SPE 330.
Study of selected twentieth century speakers; critical analysis of selected speech texts.

SPE 340. (Formerly SPE 451.) Oral Interpretation of Literature II. **Three hours.** II.
Prerequisite: SPE 240.
Advanced techniques of oral interpretation; attention to individual problems. Final recital program of readings required.

SPE 360. Speech and Language Development. **Three hours.** A.
The normal patterns of speech and language acquisition; application of learning theory and linguistic concepts.

SPE 370. Speech Pathology: Disorders of Speech. **Three hours.** II.
Prerequisite: SPE 275.
Study of the etiology, principles of diagnosis, and treatment of disorders of speech.

SPE 373. Introduction to Speech Therapy. **Two hours.** I.
Prerequisite: SPE 275.
Observation and discussion of therapy; limited supervised experience using techniques and procedures of speech therapy.

SPE 378. Speech Pathology: Methods and Materials. **Two hours.** II.
Prerequisite: SPE 275.
Procedures of examination for disorders of voice and articulation; interviewing for information; therapy materials for use with children and adults.

SPE 380. Introduction to Clinical Audiology. **Three hours.** I.
A survey of the profession of audiology: a study of the anatomy, physiology, and acoustics of hearing; principal types of hearing loss.

SPE 385. Audiometry. **Three hours.** II.
Prerequisite: SPE 380.
Basic clinical techniques for assessing hearing acuity. Included: identification audiometry, pure tone threshold determination, speech audiometry, and concepts underlying interpretation of hearing tests.

SPE 390. Radio Production. **Three hours.** A.
Prerequisite: SPE 290.
Fundamentals of technical artistic elements of radio production. Practical experience at Radio Station WEKU-FM required.

SPE 393. Radio Practicum. **One hour.** (May be repeated for a total of three hours.) I, II.
Prerequisite: SPE 290 and consent of instructor.
Supervised practical experience on the staff of Radio Station WEKU-FM. Students will participate in the various aspects of radio station operation.

SPE 395. Television Production. **Three hours.** A.
Prerequisite: SPE 290.
A study of the basic elements of television production, including an introduction to writing, producing, directing, and other technical aspects of commercial television. Two hours lecture-discussion and two laboratory hours.

SPE 398. Television Practicum. **One hour.** (May be repeated for a total of three hours.) I, II.
Prerequisite: SPE 290 and consent of instructor.
Supervised practical experience on the staff of Eastern Kentucky University Instructional Television; participation in various aspects of television production including camera work, lighting, graphics, set design and construction.

SPE 400. Persuasion. **Three hours.** A.
Prerequisite: SPE 100.
Methods of influencing human belief and behavior through communication; special attention to psychological motivation.

SPE 405. Mass Communication and Propaganda. **Three hours.** A.
Prerequisite: SPE 100.
Study of the media of mass communication: press, radio, television, and motion pictures; analysis of techniques of mass communication and propaganda.

SPE 450. (Formerly SPE 550.) Phonetics of the English Language. **Three hours** A.
Phonetic analysis of contemporary American speech; practice in broad and narrow transcription.

SPE 463. Teaching of Speech. **Three hours.** A.
Prerequisite: A major or minor in speech.
Principles and practice of speech education and its relation to other areas; special attention to content, materials, activities, textbooks, methods evaluation, and problems.

SPE 470. Clinical Practice in Speech and Hearing Therapy I. **Three hours.**
Supervised clinical experience in therapy of speech and hearing disorders. Permission of department required.

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SPE 475. Clinical Practice in Speech and Hearing Theraphy II. Three hours. II.
Continuation of SPE 470. Supervised clinical experience in therapy of speech and hearing disorders. Permission of department required.

SPE 480. Rehabilitation for the Aurally Handicapped. Three hours. A.
Prerequisite: SPE 380.
Auditory training, speech reading, speech conservation. Hearing aid counseling for children and adults language training for the hearing impaired preschool and elementary school child.

SPE 560. (Formerly SPE 331.) Introduction to Speech Correction. Three hours. A.
Prerequisite: SPE 100.
Designed to help identify and deal with speech defects. Study of basic types of disorders, emphasis on good environment for the handicapped and sources of specialized help.

SPE 570. Directed Study in Speech Pathology. One to three hours. A.
Directed projects in speech pathology. Proposal for the project must be submitted one semester in advance. Departmental permission is required.

SPE 580. Directed Study in Audiology. One to three hours. A.
Directed projects in audiology. Proposal for the project must be submitted one semester in advance. Departmental permission is required.

ENGLISH (ENG)

Kelly Thurman, Chairman; Alexander, Bach, A. Brock, Browning, Bumpus, R. Burkhart, Callender, Carey, Chrisman, Cornelius, Crawford, Davy, Fakundiny, Grise, Hale, Hill, Hisle, Kleine, Latham, Latta, Long, Mangus, Mankin, Matheny, Murphy, Newport, Nims, Oldham, Owens, Rhodes, Richardson, Singleton, Slavosky, K. Smith, Sowders, Sutton, D. White, I. White, Whitson, E. Williams, Zausch.

The following courses are required for a major in English (teaching or non-teaching): GSE 101; 102; ENG 209 or 211; 210 or 212; 301; 350; 351; 411; 504 (or 539 or 540 or 541). In addition, at least 9 hours of restricted English electives are required, selected so that a minimum of one course is taken from each of the following groups, to make a minimum total of 30 hours excluding GSE 101 and 102; Group I (521, 522, 523, 524); Group II (321, 422, 525, 526, 534); Group III (312, 317, 323). ENG 463 and Education courses are required for a teaching certificate.

The student must take 12 hours (or equivalent) of one foreign language, normally French, German, or Latin; HIS 345 or 346 (or equivalent); and SPE 100 or 300.

The student may take a teaching area in English by earning at least 51 semester hours including GSE 101 and 102. In general the student may follow the curriculum for a major, adding at least 15 hours selected in conference with his advisor. ENG 463 and Education courses are required for a teaching certificate.

The following courses are required for a minor in English (teaching and non-teaching): GSE 101 and 102; ENG 209 or 211; 210 or 212; 301; 350 or 351; 411 and one additional upper division course in literature.

Curriculum for a major in English (teaching): The first two years of this curriculum may be found in the Central University College section.

Junior	Hours
Elective	3-7
EDU 317	4-0
ENG 301, 350, 411, 351	12
GSC 170, 176 (or equivalent)	6
English electives	6-10
	35

Senior	Hours
EDU 462	4
EDU 463	10
ENG 463	3
English elective	3
ENG 504, 539, 540, or 541	3
Elective	7
	33

Minor in Journalism

Students minoring in journalism will complete 16 hours in journalism and 3 hours from either ENG 504—Semantics, or English 539—Introduction to Linguistic Theory. Six hours must be in upper division courses.

The teaching minor in Journalism is restricted to those with a first major in art, English, history or business education.

MASTER OF ARTS DEGREE IN ENGLISH:

The Master of Arts Degree in English is offered under Option A or Option B. Under either option, work includes both preparation for independent study leading toward the Ph.D. in English and for teaching on the college and pre-college levels. Under either option a student must pass a language reading examination in one foreign language (normally French, German, or Latin) before the Master's degree will be granted; however, the student may instead elect, unless he has already met the requirement, the completion of 12 hours (or the equivalent) of study in at least one language, acceptable to the student's graduate advisory committee. Also, under either option, at least 16 hours must be at the 600 level.

For further information concerning the objectives and areas of course work leading to the M.A. degree in English, admission requirements, the Graduate Record Examination, residence requirements, grade-point average requirement for graduation, comprehensives and orals, and other pertinent matters, see the **Graduate Bulletin.**

MASTER'S DEGREE IN EDUCATION:

The Department of English, in cooperation with the Graduate School and the College of Education, offers an emphasis in English applying toward the M.A. degree in Education-Secondary Education. Students obtaining this degree should have a minimum total of 30 graduate hours, 10 of which should be in education and 20 of which should be in English. For further requirements concerning the M.A. degree in Education with emphasis in English see the **Graduate Bulletin.**

ENGLISH (ENG)

ENG 150. (Formerly English 216.) Introduction to the Short Story. Two hours. I, A.

Readings in the modern short story from its origins to the present; special emphasis on understanding and enjoying short fiction.

ENG 151. Introduction to Dramatic Literature. Two hours. II, A.

Readings in selected classic and modern plays with emphasis on appreciation and interpretation.

ENG 209. Survey of English Literature I. **Three hours.** I, II.
Prerequisite: GSE 101 and 102.
English literature from **Beowulf** through the 18th Century; special emphasis on Chaucer, Spenser, Shakespeare, Donne, Milton, Dryden, Pope, Swift, and Johnson.

ENG 210. Survey of English Literature II. **Three hours.** I, II.
Prerequisite: GSE 101 and 102.
English literature from the Romantics to the present; emphasis on Wordsworth, Keats, Tennyson, Browning, Arnold, Hardy, Yeats, and Joyce.

ENG 211. (Formerly ENG 218.) Survey of World Literature I. **Three hours.** I, II.
Prerequisite: GSE 101 and 102.
Selected readings from masterpieces of world literature, history, and philosophy from ancient times through the Renaissance.

ENG 212. (Formerly ENG 219.) Survey of World Literature II. **Three hours.** I, II.
Prerequisite: GSE 101 and 102.
Selected readings from Continental, English, and American writers from the 17th Century to the present.

ENG 213. Survey of Biography. **Three hours.** A.
Prerequisite: GSE 101 and 102.
History, development and survey of selected readings in biography from the time of Plutarch to the present.

ENG 214. (Formerly ENG 314.) Introduction to the Novel. **Three hours.** A.
Prerequisite: GSE 101 and 102.
Development and survey of the English and American novel from their beginnings to the present. Recommended particulary for the non-major.

ENG 215. Introduction to Poetry. **Three hours.** A.
Prerequisite: GSE 101 and 102.
Readings in selected poems with major emphasis on understanding and enjoying poetry; training in the explication of poems. Recommended particularly for the non-major.

ENG 301. Advanced Composition and Rhetoric. **Three hours.** I, II.
Prerequisite: GSE 101 and 102.
Study of grammer and rhetoric in relation to expository writing: special attention given to preparing a research paper on a topic related to an appropriate phase of English.

ENG 312. (Formerly ENG 33.) Modern Drama. **Three hours.** A.
Prerequisite: GSE 101, 102, and two courses in literature.
Study of representative Continental, British, and American plays from Ibsen and Strindberg to the present.

ENG 317. The Modern Novel. **Three hours.** A.
Prerequisite: GSE 101, 102, and six hours of literature.
Study of important British and American novels of the 20th Century.

ENG 319. (Formerly ENG 461, 40.) Kentucky Literature. **Three hours.** I, A.
Prerequisite: GSE 101, 102, and two courses in literature.
Study of prominent Kentucky writers from the time of statehood to the present; students encouraged to work with the John Wilson Townsend Collection.

ENG 321. (Formerly ENG 37a.) The Age of Wordsworth and Keats. **Three hours.** I, A.
Prerequisite: GSE 101, 102, and two courses in literature.
Primary emphasis on the rise, development, and culmination of the poetry of the Romantic period; intensive reading of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.

ENG 323. Modern Poetry. **Three hours.** II, A.
Prerequisite: GSE 101, 102, and six hours of literature.
Study of contemporary British and American poets: analysis, interpretation and criticism of modern poetry.

ENG 350. (Formerly ENG 318, 36.) American Literature I. **Three hours.** I, II.

Prerequisite: GSE 101, 102, and two course in literature.

Survey of American literature from the beginnings to Whitman; emphasis on Cooper, Bryant, Emerson, Poe, Hawthorne, Melville, and Thoreau.

ENG 351. (Formerly ENG 318.) American Literature II. **Three hours.** I, II.

Prerequisite: GSE 101, 102, and two courses in literature.

Survey of American literature from Whitman to the present; emphasis on Whitman, Dickinson, Twain, James, Faulkner, Frost, and Eliot.

ENG 411. (Formerly ENG 311, 32a and 32b.) Shakespeare. **Three hours.** I, II.

Prerequisite: GSE 101 and 102, and two courses in literature.

Study of Elizabethan England as a background for Shakespeare's works; extensive reading of several plays; intensive reading of selected drama and poetry.

ENG 420. (Formerly ENG 320.) The Local Colorists and the Regional Realists. **Three hours.** A.

Prerequisite: GSE 101, 102, and two courses in literature.

Rise of local color and regional realism; survey of the movements from the beginnings to the present in the United States; attention to literature of such regions as Kentucky, the South, and other areas.

ENG 422. (Formerly ENG 322, 37b.) Poetry and Prose of the Victorian Period. **Three hours.** A.

Prerequisite: GSE 101, 102, and two courses in literature.

Survey of prose and poetry of the Victorian period; reading of selected writers, excluding fiction.

ENG 425. (Formerly ENG 325.) The Old Testament as Literature. **Three hours.** A.

Prerequisite: GSE 101, 102, and two courses in literature.

Selected reading in the literature of the Old Testament; emphasis upon its dramatic, lyric, and narrative qualities.

ENG 426. The English Lyric. **Three hours.** A.

Prerequisite: GSE 101, 102, and two courses in literature.

Consideration of the English lyric from the Middle Ages to modern times; reading and study of lyric poems by various English poets.

ENG 463. Teaching of High School English. **Three hours.** I, II.

Prerequisite: A major or minor in English.

Study of effective methods of introducing composition, grammar, and literature to the high school student; special emphasis on programming, lesson planning, and evaluating.

ENG 502. (Formerly ENG 402.) Creative Writing I. **Three hours.** I, A.

Prerequisite: GSE 101, 102, and two other English courses; permission of instructor.

Open to students who desire to have their manuscripts criticized; fiction, drama, poetry, biography, or the informal essay accepted; guest lectures by and discussion with writers-in-residence.

ENG 503. (Formerly ENG 403.) Creative Writing II. **One to three hours.** II. A.

Prerequisite: GSE 101, 102; permission of instructor.

A continuation of Eng. 502 but open also to students enrolling for a writer's conference, which is a one-week course of fifteen informal lectures and discussions by faculty and visiting lecturers. Each student registering for the writer's conference must submit a short story, a one-act play, four poems, or the equivalent.

ENG 504. (Formerly ENG 404.) Semantics. **Three hours.** A.

Prerequisite: GSE 101, 102, and two courses in literature.

Examination of the basic principles underlying the influence of language on human action and interaction; emphasis on the relevance of semantics to composition and literature.

ENG 521. (Formerly ENG 421.) Renaissance Literature. **Three hours.** I, A.
Prerequisite: GSE 101, 102, and two courses in literature.
Study of poetry and prose of the English Renaissance, with emphasis on Sidney, Spenser, and Bacon.

ENG 522. English Poetry and Prose of the Seventeenth Century Exclusive of Milton. **Three hours.** A.
Prerequisite: GSE 101, 102, and two courses in literature.
Survey of poetry and prose of the first half of the 17th century, with emphasis on Donne, Jonson, Herbert, Crashaw, Browne, and Burton.

ENG 523. (Formerly ENG 423.) Milton and His Age. **Three hours.** A.
Prerequisite: GSE 101, 102, and two courses in literature.
Study of the most important works of Milton; attention to the historical setting and to Milton's contemporaries.

ENG 524. (Formerly ENG 424, 44.) Chaucer. **Three hours.** II, A.
Prerequisite: GSE 101, 102, and two courses in literature.
Intensive reading of such works as **The Canterbury Tales** and **Troilus and Criseyde**; other readings as time permits.

ENG 525. (Formerly ENG 425, 525.) The Age of Dryden and Pope. **Three hours.** A.
Prerequisite: GSE 101, 102, and two courses in literature.
Poetry, prose, and drama of the Restoration Period with emphasis on Dryden; poetry of the Augustan period with emphasis on Pope.

ENG 526. (Formerly covered in part by ENG 525.) The Age of Swift and Johnson. **Three hours.** A.
Prerequisite: GSE 101, 102, and two courses in literature.
Prose of the Augustan period with emphasis on Swift. Poetry, prose, and drama of the later eighteenth century with emphasis on Johnson and Boswell, rise of the novel, and pre-romantic poetry.

ENG 534. The Nineteenth-Century English Novel. **Three hours.** A.
Prerequisite: GSE 101, 102, and two courses in literature.
Study of the great 19th century English novelists from Jane Austen through Hardy: Austen, Scott, Dickens, the Brontes, Thackeray, Eliot, Meredith, Trollope, and Hardy.

ENG 539. (Formerly covered in part by ENG 540.) Introduction to Linguistic Theory. **Three hours.** I, A.
Prerequisite: GSE 101, 102, and at least six additional hours of English.
Detailed attention to the International Phonetic Alphabet, phonemics, and morphemics. Some attention to structural and transformational methods of analysis. Introduction to the study of dialect.

ENG 540. Applied Grammar and Linguistics. **Three hours.** II, A.
Prerequisite: GSE 101, 102, and six additional hours.
Study of ways in which modern linguistic theory is put into practice. Emphasis on linguistics field work, comparison of languages, and investigation of English as a second language.

ENG 541. (Formerly ENG 441, 47.) History and Structure of the English Language. **Three hours.** A.
Prerequisite: GSE 101, 102, and six additional hours.
Study of the history of the English language in terms of social, historical, and linguistic forces from which it developed into modern English.

ENG 546. (Formerly ENG 646.) American Novel. **Three hours. I,** A.
Prerequisite: GSE 101, 102, and six additional hours of English.
Survey of the American novel from its beginning to the present.

ENG 547. Age of Emerson. **Three hours.** A.
Prerequisite: GSE 101, 102, and two courses in literature.
Intensive study of the prose and poetry of the American Renaissance; emphasis on the writings of Emerson, Thoreau, Hawthorne, Melville, and Whitman.

ENG 550. Realism and Naturalism in American Fiction. **Three hours.** A.

Prerequisite: GSE 101, 102, and two courses in literature.

Study of the development of the realistic novel in the 19th century and the rise of naturalism in the twentieth; emphasis upon Howells, James, Garland, Norris, Crane, and Dreiser.

ENG 560. Continental Fiction. **Three hours.** A.

Prerequisite: GSE 101, 102, and two courses in literature.

Extensive reading in translation of important fiction of the Western world; emphasis on selected novelists of the 19th and 20th centuries.

ENG 565. Greek and Roman Drama in Translation. **Three hours.** A.

Prerequisite: GSE 101, 102, and two courses in literature.

Brief study of dramatic criticism, theory of tragedy, and the Greek and Roman theater; reading of plays by Aeschylus, Sophocles, Euripides, Aristophanes, Plautus, and Seneca.

ENG 575. Poetry, Prose, Composition. **Nine hours.**

Intensive analysis of poetry and prose; laboratory in composition; demonstrations of recent instructional media. Designed to prepare elementary and secondary teachers for more effective teaching. Administered by the United States Office of Education.

GRADUATE COURSES

ENG 601. (Formerly ENG 501.) Bibliography and Research. **Three hours.** A.

Work in critical theory and practice with attention to bibliography and resources. Each student compiles an extensive bibliography on a subject or author of his or his instructor's choice.

ENG 605. (Formerly ENG 565, 505.) Seminar in the Structure of English. **Three hours.** A.

Examination of various descriptive, transformational, and comparative approaches to the study of language.

ENG 611. (Formerly ENG 511.) English Drama to 1642. **Three hours.** A.

English drama from its beginning in the Middle Ages to the closing of the theaters in 1642, excluding Shakespeare.

ENG 625. (Formerly covered in part by ENG 626.) Old English Literature. **Three hours.** A.

Reading and study of selected works in original Old English dialects combined with work in translation. Emphasis on **Beowulf** and related heroic poetry.

ENG 626. (Formerly ENG 526.) Middle English Literature. **Three hours.** A.

English literature from 1200 to 1500; emphasis on poetry; readings done primarily in the original dialect.

ENG 628. Seminar in Donne and Jonson: Poetry and Prose. **Three hours.** A.

Detailed study of the poetry of John Donne and Ben Jonson; some emphasis on 17th century prose.

ENG 630. Studies in the Romantic Period. **Three hours.** A.

Study in depth of selected major figures of the Romantic Period from the pre-romantics and Blake through Worsdworth, Coleridge, Byron, Shelley, and Keats.

ENG 632. Seminar in the Age of Tennyson and Browning. **Three hours.** I, A.

Primary emphasis on the poetry of Tennyson and Browning; selected readings from other Victorian writers.

ENG 645. Seminar in Whitman and James. **Three hours.** A.

Intensive study in scholarly problems related to the poetry of Whitman and the fiction of James.

ENG 647. Seminar in Hawthorne and Melville. **Three hours.** A.

Intensive study of scholarly problems related to the fiction of Hawthorne and Melville.

ENG 652. Seminar in Faulkner and Hemingway. **Three hours.** A.
Studies in the fiction of Faulkner and Hemingway.

ENG 655. Studies in Twentieth-Century Literature. **Three hours.** A.
Detailed study of selected major figures in poetry, fiction, and drama of the 20th century. Concentration upon British and American literature. May be repeated once.

ENG 660. The Epic. **Three hours.** A.
Homer and the epic tradition; the **Aeneid**; **the Divine Comedy**; **Orlando Furioso**; **Jerusalem Delivered**; **Paradise Lost**; anonymous epics; the **Cid**; the **Song of Roland**; the **Nibelungenlied**, the **Kalevala.**

ENG 672. Seminar in Eighteenth-Century English Literature. **Three hours.** A.
Studies in depth of two or more major figures of the Augustan Age.

ENG 686. Literary Theory. **Three hours.** A.
Studies in the relationship of imaginative and non-imaginative literature; emphasis on philosophical approaches to English and American Literature.

ENG 690. Special Studies. **One to three hours.** A.
Independent research and writing designed to fulfill the individual needs and interests of advanced students.

ENG 692. (Formerly ENG 592.) Graduate Seminar in Shakespeare. **Three hours.** A.
Concentration on selected works of Shakespeare; investigation and research of scholarly problems.

JOURNALISM (JOU)

JOU 200. Introduction to Mass Communications. **Three hours.** I.
Analysis of the growth and impact of news media upon the social, political, and economic forces in society.

JOU 201. Newswriting. **Three hours.** A.
Prerequisite: GSE 101 and 102.
Study of the elements of news, the lead, style and structure of news stories, news sources, readability, types of stories, and ethics; practice in gathering, writing and evaluation of news.

JOU 303. Journalism Practicum. (May be repeated for a total of 4 hours). **One hour.** I, II.
Prerequisite: GSE 101 and 102.
Instruction and practice in journalism techniques such as reporting, photography, writing and editing a newspaper; organization and procedure in operating a communications reference library with special emphasis given to maintenance of source materials.

JOU 305. Feature writing. **Three hours.** A.
Prerequisite: GSE 101 and 102.
Writing and submitting articles for publication in newspapers, magazines and syndicates; study requirements of periodicals to which sale is attempted and free-lancing methods in general.

JOU 307. Editorial Writing. **Three hours.** A.
Prerequisite: JOU 200, 201, 305, or ENG 301.
Study of editorials, editorial columns and editorial pages; practice in writing editorials for publication.

JOU 501. School Publications Supervision Conference. (May be repeated for a maximum of 4 hours). **Two hours.**
Prerequisite: Permission of the instructor.
A two-week course of lectures and discussion by faculty and visiting lecturers. Each student will supervise secondary school students in the production of specimen school publications.

FOREIGN LANGUAGES

C. L. Nelson, Chairman; Berggrun, U. Boyd, S. Burkhart, Carter, Cross, de los Reyes, Ingels, Ladd, Nett, Scruggs, Steanson, Welsh, Woronin, Yeo.

A student may complete a teaching major in one foreign language by earning 27 semester hours in courses of that language numbered from 200 and above. A student may take a first major in Russian, but without right of teaching certificate. (For a major in Russian, a student may include RUS 101, 102 in his 27 hour total.)

A two language teaching major-minor combination may be earned in Foreign Languages with 27 hours of one language chosen from courses numbered 200 and above, and at least 18 hours in a second foreign language in courses numbered from 200.

A student who majors in Foreign Languages (non-teaching) will take a minimum of 30 hours in courses numbered from 200 in the chosen language.

A student who wishes to minor in the Department of Foreign Languages will take a minimum of 18 hours in courses of the language numbered from 200 upwards.

Curriculum for a major in a foreign language (teaching, non-teaching). The first two years of this curriculum may be found in the Central University College section.

Junior Year	Hours	Senior Year	Hours
Foreign Language	15-18	Foreign Language	9-12
Minor or electives	9-12	Minor or electives	6- 9
*ENG 210 or 212	3	*EDU 462	4
*EDU 317 or elective	3- 4	*EDU 463	10
		*Foreign Language 463	3
	30-34		32-35

*Non-teaching majors and minors may omit these courses and take 15-18 hours of Foreign Languages and electives to be chosen in consultation with Foreign Language adviser.

FRENCH (FRE)

FRE 101. Elementary French. **Three hours.** I, II.

Pronunciation; grammar; conversation in French on material studied. Some drill in language laboratory required.

FRE 102. Elementary French. **Three hours.** I, II.

Prerequisite: FRE 101 or equivalent proficiency.

Continuation of grammar study begun in FRE 101, and oral work based on reading material. Some drill in language laboratory required.

FRE 201. Intermediate French. **Three hours.** I, II.

Prerequisite: FRE 102 or equivalent proficiency.

Grammar review; controlled conversation; selected readings.

FRE 202. Intermediate French. **Three hours.** I, II.

Prerequisite: FRE 201.

Emphasis on reading and writing French.

FRE 206. (Formerly FRE 407.) Intermediate Conversation. **Three hours.** I, II.

Prerequisite: FRE 202 or equivalent.

Required of all majors and minors. (Waived in case of demonstrable oral proficiency.)

FRE 303. Introduction to French Literature. **Three hours.** I.

Prerequisite: FRE 202 or equivalent.

A survey of major works of French literature from Middle Ages through the eighteenth century. Required of all majors.

FRE 304. Introduction to French Literature. **Three hours.** II.
Prerequisite: FRE 202 or equivalent.
Survey of nineteenth and twentieth century French literature. Required of all majors.

FRE 307. The Nineteenth Century Novel. **Three hours.** A.
Prerequisite: FRE 303-304.
Selected complete novels from such writers as Chateaubriand, Hugo, Balzac, Flaubert, Zola.

FRE 308. Nineteenth Century Poetry and Drama. **Three hours.** II.
Prerequisite: FRE 303-304.
Musset, Vigny, Lamartine, Hugo, Baudelaire, de Lisle, Verlaine, Rimbaud and Mallarme.

FRE 311. The Age of Classicism. **Three hours.** I.
Prerequisite: FRE 303-304.
Selected works from such writers as Descartes, Pascal, Corneille, Scarron, Moliere, Racine and La Fontaine.

FRE 312. The Age of Enlightenment. **Three hours.** II.
Prerequisite: FRE 303-304.
Selected works of Le Sage, Montesquieu, Voltaire, Prevost, Diderot, Rousseau and Beaumarchais.

FRE 380. Culture and Civilization. **Three hours.** I and II.
Prerequisite: FRE 206 or equivalent.
Broad survey of French culture and civilization for the French major.

FRE 399. Linguistics. **Three hours.** I and II.
Prerequisite: Consent of instructor.
Introduction to French Linguistics.

FRE 405. Advanced Grammar and Composition. **Three hours.** I and II.
Prerequisite: FRE 202.

FRE 411. Contemporary French Literature. **Three hours.** A.
Prerequisite: FRE 303-304.
Gide, Apollinaire, Valery, Malraux, Cocteau, Giraudoux, Sartre, Anouilh, Ionesco.

FRE 463. Teaching of High School French. **Three hours.** II.
Prerequisite: A major or minor in French.
For the student-teacher, this course deals with objectives, content, and methods of teaching French in high schools.

FRE 495. (Formerly FRE 395.) Independent Work in French. **Three hours.** I, II.
Prerequisite: Consent of the Department.
May be repeated once.

GERMAN (GER)

GER 101. Elementary German. **Three hours.** I, II.
Essentials of grammar with practice in pronunciation, reading, writing, and some conversation. Some drill in language laboratory required.

GER 102. Elementary German. **Three hours.** I, II.
Prerequisite: GER 101 or equivalent proficiency.
Continuation of GER 101 with more advanced exercises in reading, writing, and comprehension of spoken German. Some drill in language laboratory required.

GER 201. Intermediate German. **Three hours.** I, II.
Prerequisite: GER 102 or equivalent proficiency.
Continuation of the elementary course on a more advanced level.

GER 202. Intermediate German. **Three hours.** I and II.
Prerequisite: GER 201 or equivalent proficiency.
Continuation of 201.
Certain selected texts are read with emphasis on translation and grammar.

GER 203. Scientific German. **Three hours.** I and II.
Prerequisite: GER 201 or equivalent proficiency.
Alternate course for GER 202. Certain selected scientific texts are read with emphasis on translation and grammar. Recommended for science majors.

GER 206. (Formerly GER 407.) Intermediate Conversation. **Three hours.** I and II.
Prerequisite: GER 202 or equivalent proficiency.

GER 305. Main Themes of German Literature. **Three hours.** I.
Prerequisite: GER 202.
Special attention to dramas which best reflect the main currents in each period. Dramas by Lessing, Goethe, Kleist, Grillparzer, and Hebbel.

GER 306. Main Themes of German Literature. **Three hours.** II.
Prerequisite: GER 202.
Continuation of GER 305.
Emphasis on the works of Hauptmann, Schnitzler, Kaiser, Brecht, Frisch, Durrenmatt, and Grass.

GER 380. Culture and Civilization. **Three hours.** I and II.
Taught in English with an English textbook. Broad survey of German culture and civilization. Special conditions for the German major and minor.

GER 405. Advanced Grammar and Composition. **Three hours.** I.
Prerequisite: GER 202 or equivalent proficiency.

GER 463. Teaching of High School German. **Three hours.** II.
Prerequisite: A major or minor in German.
For the student-teacher, this course deals with objectives, content, and methods of teaching German in high schools.

GER 495. (Formerly GER 395.) Independent Work in German. **Three hours.** I, II.
Prerequisite: Consent of the Department.
May be repeated once.

GREEK (GRE)

GRE 101. Elementary Greek. **Three hours.** I.
Introduction to the grammar of classical Greek and the Koine Greek of the New Testament and to the reading of elementary texts. Recommended for students majoring in languages, ancient history, and Bible.

GRE 102. Elementary Greek. **Three hours.** II.
Continuation of GRE 101 with more advanced work in grammar and syntax and the reading of Xenophon's Anabasis.

LATIN (LAT)

LAT 101. (Formerly LAT 115 and 10.) Elementary Latin. **Three hours.** I.
Pronunciation; declension of nouns, adjectives, and pronouns; indicatives; infinitives; simple uses of subjunctive verbs; acquisition of the fundamental principles of the language; ability to read simple Latin prose dealing with Roman home life, mythology, and Roman history.

LAT 102. (Formerly LAT 116 and 11.) Elementary Latin. **Three hours.** A.
Prerequisite: One unit of high school Latin or LAT 101.
Caesar and a wide range of other authors; vocabulary; inflection, syntax, and their application to English; collateral reading on Roman history and society; training in the understanding of Latin in the Latin order.

LAT 201. (Formerly LAT 12.) Selections from Cicero and Ovid. **Three hours.** A.
Prerequisite: Two units of high school Latin or LAT 102.
Selections from the works of Cicero, Ovid, Pliny, and others; continued emphasis on mastery of vocabulary and syntax; emphasis on the relation of Latin to English; comparison of the government of the Roman Republic to that of democracies of the present day.

LAT 202. (Formerly LAT 205 and 13.) Selections from Vergil's Aeneid. **Three hours.** A.
Prerequisite: Two or three units of high school Latin or LAT 201.
Selections from Aeneid of Vergil; study of the Augustan age; study of metrical form and structure of the poem; continued emphasis on Latin inflection and constructions.

LAT 301. (Formerly LAT 15.) Selections from Livy. **Three hours.** A.
Prerequisite: Three units of high school Latin or equivalent.
Survey of Roman history from the foundation of Rome to the close of the second Punic War; assigned readings from such historians as Mommsen, Heitland, and others; comparative study of Rome and Carthage; critical study of Livy's style.

LAT 302. (Formerly LAT 16.) Selections from Horace. **Three hours.** A.
Prerequisite: Three units of high school Latin or equivalent.
Selected odes, epodes, and satires from Horace; study of Augustan Age from both a literary and political point of view; study of Horace's philosophy; various meters employed by Horace.

LAT 303. (Formerly LAT 22.) The Writing of Latin Prose. **Three hours.** A.
Prerequisite: LAT 301 or equivalent.
Selections form the text, "Arnold's Latin Prose"; review of syntax, sight reading.

LAT 304. (Formerly LAT 23.) The Latin Dramatists. **Three hours.** A.
Prerequisite: LAT 301 or equivalent.
Dramas of Plautus, Terence, and Seneca; two plays of Plautus for intensive study; rapid reading of other representative plays.

LAT 401. (Formerly LAT 41.) Latin Prose of the Silver Age. **Three hours.** A.
Prerequisite: LAT 302 or equivalent.
Letters of Pliny the Younger; selections from the writings of Tacitus.

LAT 402. (Formerly LAT 32.) Satire and Epigram. **Three hours.** A.
Selected satires of Juvenal; selected epigrams of Martial; development of satire in Latin literature, with assignments from Horace; satire in English; epigram as a literary expression.

LAT 403. (Formerly LAT 31.) Latin Literature of the Early Empire. **Three hours.** A.
Prerequisite: LAT 302 or equivalent.
The Oxford University Press text—selections compiled by A.C.B. Brown.
Selections from a connected and contemporaneous discussion of politics, education, literature, philosophy, social types, and town and country life.

LAT 404. (Formerly LAT 30.) Literature of the Late Republic. **Three hours.** A.
Prerequisite: LAT 302 or equivalent.
Selections from the works of Caesar, Sallust, Nepos, and Cicero, with emphasis on Ciceronian prose as a basis of much of the thinking and writing since his day; selections from works of poets of this age, with emphasis on the works of Catullus and Lucretius.

LAT 405. (Formerly LAT 42.) Roman Private Life. **Three hours.** A.
Lectures, discussions, and readings on Roman family, home, marriage, education, clothing, food, amusements, travel, religion, town and country life.

LAT 463. The Teaching of Latin. **Three hours.** II.
For the student-teacher, this course deals with objectives, content, and methods of teaching Latin in high schools.

LAT 495. (Formerly LAT 395.) Independent Work in Latin. **Three hours.** I, II.
Prerequisite: Consent of the Department.
May be repeated once.

RUSSIAN (RUS)

RUS 101. Elementary Russian. **Three hours.** I.
Elements of the language studied through grammar, pattern practice, drills, reading, and conversation. Some drill in language laboratory required.

RUS 102. Elementary Russian. **Three hours.** II.
Prerequisite: RUS 101 or equivalent.
Continuation of RUS 101. Grammar and reading of Russian literature in translation required. Some drill in language laboratory required.

RUS 201. Intermediate Russian. **Three hours.** I.
Prerequisite: RUS 102 or equivalent proficiency.
Continuation of Russian grammar; emphasis on vocabulary building and conversation. Reading selections from Russian prose, poetry, and politics (newspaper and magazines). Oral reports and discussion of texts.

RUS 202. Intermediate Russian. **Three hours.** II.
Prerequisite: RUS 201 or equivalent proficiency.
Continuation of RUS 201.

RUS 206. (Formerly RUS 407) Intermediate Conversation. **Three hours.** II.
Designed to be taken simultaneously with RUS 202, with permission of instructor. Limited enrollment to permit individual attention. One hour of laboratory per week.

RUS 303. Survey of Russian Literature. **Three hours.** I.
Prerequisite: RUS 202 or equivalent proficiency.
Continuation of lower courses on a more advanced level. Selected readings from Pushkin, Gogol, Turgenev, Chekhov, and others. Assigned reading in English or Russian history, culture, and civilization. One hour laboratory per week.

RUS 304. Survey of Russian Literature. **Three hours.** II.
Prerequisite: RUS 202 or equivalent proficiency.
Readings from the time of Tolstoy and Dostoevsky to the present. Laboratory required.

RUS 380. Culture and Civilization. **Three hours.** I and II.
Prerequisite: RUS 202.
Broad survey of the development of Russian culture and civilization.

RUS 405. Advanced Composition. **Three hours.** A.
Prerequisite: RUS 202 or equivalent proficiency.
Morphology and syntax of Russian grammar. Study of composition and stylistics. Laboratory required.

RUS 495. (Formerly RUS 395.) Independent Work in Russian. **Three hours.** I, II.
Prerequisite: Consent of the Department.
May be repeated once.

SPANISH (SPA)

SPA 101. Elementary Spanish. **Three hours.** I, II.
Grammar; pronunciation; reading of basic Spanish. Some drill in language laboratory required.

SPA 102. Elementary Spanish. **Three hours.** I, II.
Prerequisite: SPA 101 or equivalent proficiency.
Continuation of SPA 101. Some drill in language laboratory required.

SPA 201. Intermediate Spanish. **Three hours.** I, II.
Prerequisite: SPA 102 or equivalent proficiency.
Review of grammar. Selected materials about Spain and Latin America. Representative short stories of authors throughout the Spanish-speaking world.

SPA 202. Intermediate Spanish. **Three hours.** I, II.
Prerequisite: SPA 201 or equivalent proficiency.
Continuation of SPA 201.

SPA 206. (Formerly SPA 407) Intermediate Conversation. **Three hours.** I, II.
Prerequisite: SPA 202 or equivalent proficiency.
Required for all Spanish majors.

SPA 303. Introduction to Spanish Literature. **Three hours.** I.
Prerequisite: SPA 202 or equivalent proficiency.
Middle Ages through the Eighteenth Century.

SPA 304. Introduction to Spanish Literature. **Three hours.** II.
Prerequisite: SPA 202 or equivalent proficiency.
Nineteenth and Twentieth Centuries.

SPA 305. Main Themes of Spanish Literature. **Three hours.** I.
Prerequisite: SPA 202 or equivalent.
Chivalry, stoicism, mysticism, the picaro, and the patriot.

SPA 306. Main Themes of Spanish Literature. **Three hours.** II.
Prerequisite: SPA 202 or equivalent.
Continuation of SPA 305, Hidalguismo, Don Juan, love, the romantic spirit, reality, and illusion.

SPA 309. (Formerly SPA 301.) Spanish Prose. **Three hours.** A.
Prerequisite: SPA 303 and 304, or 305 and 306.
Intensive study of Spanish prose from the Middle Ages through the Eighteenth Century.

SPA 310. (Formerly SPA 302.) Spanish Prose. **Three hours.** A.
Prerequisite: SPA 303 and 304, or 305 and 306.
Intensive study of Spanish prose of the Nineteenth and Twentieth Centuries.

SPA 380. Culture and Civilization. **Three hours.** I and II.
Prerequisite: SPA 202 or equivalent.
Broad survey of the development of Spain and Latin America.

SPA 399. Linguistics. **Three hours.** I and II.
Prerequisite: SPA 303-304.
Introduction to Linguistics for the Spanish major.

SPA 405. Advanced Composition. **Three hours.** I.
Prerequisite: SPA 202 or equivalent proficiency.
Required for all Spanish majors.

SPA 409. (Formerly SPA 401.) Spanish Drama and Poetry. **Three hours.** A.
Prerequisite: SPA 303 and 304, or 305 and 306.
Intensive study of Spanish drama and poetry from the Middle Ages through the Eighteenth Century.

SPA 410. (Formerly SPA 402.) Spanish Drama and Poetry. **Three hours.** A.
Prerequisite: SPA 303 and 304, or 305 and 306.
Intensive study of Spanish drama and poetry of the Nineteenth and Twentieth Centuries.

SPA 412. Seminar. Special Problems of Spanish Literature. **Three hours.** A.
Members of the staff. Open to senior majors with permission of Chairman.

SPA 414. Seminar. Special Problems of the Spanish Language. **Three hours.** A.
Members of the staff. Open to senior majors with permission of Chairman.

SPA 463. Teaching of High School Spanish. **Three hours.** II.
Prerequisite: A major in Spanish.
For the student-teacher, this course deals with objectives, content, and methods of teaching Spanish in high schools.

SPA 495. (Formerly SPA 395.) Independent Work in Spanish. **Three hours.** I, II.
Prerequisite: Consent of the Department.
May be repeated once.

GEOGRAPHY (GEO)

J. R. Schwendeman, Jr., Chairman; Adams, Lathrop, Monsebroten, Quillen, Raleigh, J. Schwendeman, Sr., Sebor.

UNDERGRADUATE PROGRAMS

The Department offers two major programs: a major in geography (teaching), and a major in geography (non-teaching). The non-teaching program is directed toward students pursuing the geography discipline as a profession. The required semester hours for these degrees varies between 33 and 41.

A minor program in geography is offered. No distinction is made with respect to the right of teaching certificate.

Students considering geography as a profession are strongly encouraged to take two years of German, French, or Russian.

Curriculum For a Major in Geography (Teaching)

GEO 210, 216, 220, 402 or GLY 302, 330 or 331, 340, 421 or 422, 442, 501, plus 6 hours of geography electives, one of which must be a three hour regional course, and GLY 108 are required for satisfactory completion of this major.

The first two years of this curriculum may be found in the Central University College section.

Junior	Hours	Senior	Hours
EDU 317	4	EDU 462, 463	14
MUS 271	3	HIS 466	3
GEO 330, 340, 402, 421 or 422, and 442	15	GEO 501 and a Regional Course	6
Electives or Minor	8	Electives or Minor	10
	30		33

The second major or minor must be approved by the Chairman of the Department of Geography and the Associate Dean of Education.

Curriculum For a Major in Geography (Non-teaching)

The major may pursue either a Physical or Cultural-Economic Orientation. The course requirements for these two orientations, referred to as Plan A and Plan B, follow. The first two years of this curriculum may be found in the Central University section.

Plan A: Courses required for the **Physical Orientation** are GEO 210, 215, 216, 220, 313, 330 or 331, 340, 355, 421 or 422, 442, 553, 499, 6 hours of electives in geography, GLY 210, 211, 414, and a course in algebra and elementary statistics.

Junior	**Hours**
MUS 271	3
MAT 107	3
GLY 211	3
GEO 313, 331, 340, 355, 421 or 422	15
GEO electives	3
Electives or minor	3
	30

Senior	**Hours**
MAT 207	3
GLY 414	3
GEO 442, 499, 553	8
GEO electives	6
Electives or Minor	12
	32

Plan B: Course requirements for students orienting in the **Cultural-Economic** area are GEO 210, 216, 220, 313, 330, 331, 340, 355, 421, 422, 442, 499, 553, 3 hours of electives in geography, GLY 210, and algebra and elementary statistics.

Junior	**Hours**
MUS 271	3
MAT 107	3
GEO 313, 330, 331, 340, 355, 422	18
GEO electives	3
Electives or Minor	6
	33

Senior	**Hours**
MAT 207	3
GEO 421, 442, 499, 553	11
GEO Regional Elective	3
GEO electives	3
Electives or Minor	9
	29

The minor program will be determined in counsel with the student's advisor.

Minor Program in Geography

A minor requires 18 semester hours.

Geography Minor: GEO 210, 216, 220, 330 or 331, plus six upper division hours of geography electives.

GRADUATE PROGRAMS

The Geography Department offers two advanced degree programs in Geography: Master of Arts with Thesis, and Master of Arts in Education with emphasis in Secondary Education—Geography.

The regulations for the above graduate degrees may be found in the appropriate sections of the **Graduate Bulletin.**

GEOGRAPHY (GEO)

(Departmental approval in lieu of course prerequisite is dependent upon an equivalent background.)

GEO 101. Principles of Geography I. **Three hours.** I, II, S.
Study of the physical environment of man, including space relation, weather and climate, soils, vegetation, landforms and resources.

GEO 102. Principles of Geography II. **Three hours.** I, II, S.
World Geography designed for general knowledge, including essential characteristics and significant problems of the major regions and cultures of the world.

GEO 210. Physical Geography. **Three hours.** I, II.
Prerequisite: Departmental majors or departmental approval.
Intensive study of space relations, maps and mapping, weather and climate, soils, vegetation, and resources. Required of all departmental majors. Two hours lecture and two hours laboratory.

GEO 215. Meteorology. **Three hours.** I.
Prerequisite: GEO 210 or departmental approval.
Elements and physical processes in the atmosphere, air masses and associated weather, frontogenesis and associated weather, and introduction to forecasting. Two hours lecture and two hours laboratory.

GEO 216. Climatology. **Three hours.** II.
Prerequisite: GEO 210 or departmental approval.
Elements of weather and climate, methods of climate classification, distribution and characteristics of climatic types. Two hours lecture and two hours laboratory.

GEO 220. Cultural Geography. **Three hours.** II.
Prerequisite: GEO 210 or departmental approval.
Introduction to basic concepts of cultural geography, emphasis on analysis of various culture elements and reasons for their regional character and variations.

GEO 300. Geography (.......................................). **One to nine hours.** A.
A geography course designed for undergraduate institute participants. Course content will be developed to adequately serve the aims of the Institute, and the specific orientation will appear in parenthesis behind the course title; that is, Earth Science, Regional, Education, etc. The designated semester hours which can be earned will also be specified for a given institute.

GEO 301. Aviation Meteorology. **Three hours.** II.
Study of the elements of weather, air masses, stability, fronts, upper air characteristics, flight hazards and combative procedures. Analysis and understanding of Weather Bureau information for flight planning and cross sectional diagramming. Designed primarily for those interested in aviation as a career or as a valuable aid in another profession.

GEO 313. Geomorphology. **Three hours.** I.
Prerequisite: GEO 216 or departmental approval.
Study of the surface features of the earth, their form, nature, origin, and stage of development. Two lecture hours and two laboratory hours.

GEO 330. Economic Geography I. **Three hours.** I.
Prerequisite: GEO 220 or departmental approval.
Description and analysis of the world pattern of major resources with consideration to their origin, development, and use. Major emphasis is on the primary activities of agriculture, forestry, fishing, and mining, and their regional variations and characteristics.

GEO 331. Economic Geography II. **Three hours.** II.
Prerequisite: GEO 220 or departmental approval.
Description and analysis of secondary and tertiary economic systems and functions. The major topics are related to origin, development, transportation, and distribution of goods and services, manufacturing, trade centers, and area-economic organization, supplemented with case studies.

GEO 340. Approach to Regional Geography. **Three hours.** I.
Prerequisite: GEO 220.
Techniques of approach in regional studies, including micro and macro areas, along with case studies.

GEO 355. Cartography. **Three hours.** I.
Map projections, construction, and representation of data on maps and charts. One hour lecture, four hours laboratory.

GEO 402. Conservation of National Resources. **Three hours.** II, S.
Conservation of physical, cultural, and human resources of nations, including history of conservation, current conservation practices and laws, and the future direction of conservation.

GEO 421. Urban Geography. **Three hours.** II.
Prerequisite: General, none; Geography majors, GEO 340.
Study of city function, patterns, and past and current problems confronting the city, including the problems of planning, zoning, community housing, shopping centers, and urban renewal. Research paper required.

GEO 422. Political Geography. **Three hours.** II, S.
Prerequisite: General, none; Geography majors, GEO 340.
Study of the development of political geography and geopolitics, conditions influencing political structures through time, with special attention to areas of current major international concern.

GEO 440. Geography of Kentucky. **Three hours.** I, S.
Prerequisite: General, none; Geography majors, GEO 340.
Physical, cultural, and economic geography of the state of Kentucky; special emphasis in physical and human resources, problems confronting the state, future of the state.

GEO 441. Geography of the South. **Two hours.** II, alternate summers.
Prerequisite: General, none; Geography majors, GEO 340.
Study of the physical, cultural, and economic geography of Southeastern United States with special emphasis on physical and human resources, current problem of this region, and the future of this region.

GEO 442. Geography of Anglo-America. **Three hours.** I, alternate summers.
Prerequisite: General, none; Geography majors, GEO 340.
Study of the physical, cultural, and economic geography of Anglo-America with special emphasis on physical and human resources, current problems of this region, and the future of this region.

GEO 498. Independent Study. **One to three hours.** I, II, S.
Prerequisite: Departmental Major with a Senior standing.
Research topic to be selected in counsel with student's advisor.

GEO 499. Senior Thesis. **Two hours.** I, II, S.
Required of all Geography majors (non-teaching).

GEO 500. Geography (..................................). **One to nine hours.** A.
A geography course designed for undergraduate and graduate institute participants. Course content will be developed to adequately serve the aims of the Institute, and the specific orientation will appear in parenthesis behind the course title; that is, Earth Science, Regional, Education, etc. The designated semester hours which can be earned will also be specified for a given institute.

GEO 501. Geography in Education. **Three hours.** I, S.
Prerequisite: Twelve hours of Social Science or six hours of geography.
Geography in the present day school systems from elementary school to university. Special emphasis directed toward course objectives, outlines, problems, evaluation of departments, geographic literature and equipment, and other material.

GEO 513. Physiography of Eastern United States. **Three hours.** I of alternate years.
Prerequisite: GEO 313.
Study of the physiographic regions and features of Eastern United States. Two hours lecture and two hours laboratory.

GEO 514. Physiography of the Western United States. **Three hours.** II of alternate years.
Prerequisite: GEO 313.
Study of the physiographic regions and features of Western United States. Two hours lecture and two hours laboratory.

GEO 516. Advanced Climatology. **Three hours.** I.

Prerequisite: GEO 216.

Current methods utilized in climatic studies of micro and macro areas, alternate climatological classification systems, and techniques employed in data collection, processing, and presentation.

GEO 530. Advanced Economic Geography. **Three hours.** II.

Prerequisite: GEO 330 and 331, or departmental approval.

Distribution and characteristics of various kinds of economic systems, and cultural and physical bases accounting for economic differentiation. Included are origin, development, and transformation of systems, comparative advantages and techniques for independent analysis.

GEO 540. Geography of Europe. **Three hours.** I, of alternate years.

Prerequisite: General, none; Geography majors, GEO 340.

Physical, cultural, and economic geography of Europe, with emphasis on problem areas or areas of current interest.

GEO 541. Geography of Latin America. **Three hours.** I of alternate years.

Prerequisite: General, none; Geography majors, GEO 340.

Physical, cultural, and economic geography of Latin America, with emphasis on underdeveloped areas or areas of current political concern.

GEO 542. Geography of Asia. **Three hours.** II of alternate years.

Prerequisite: General, none; Geography majors, GEO 340.

Physical, cultural, and economic geography of Asia, with emphasis on areas of current concern.

GEO 543. Geography of Africa. **Three hours.** II of alternate years.

Prerequisite: General, none; Geography majors, GEO 340.

Physical, cultural, and economic geography of Africa, with emphasis on areas of current concern.

GEO 546. Regional Geography. **Three hours.** A.

Prerequisite: General, none; Geography majors, GEO 340.

Intensive study of a selected area of less than continental size. Offered upon demand and by an instructor who has done extensive research in the selected region, or by a visiting lecturer. May be taken for a maximum of six hours.

GEO 553. Quantitative Applications in Research. **Three hours.** II.

Prerequisite: Elementary statistics course.

Study of data type normally encountered in social and earth science research, valid sampling techniques in regard to development of this data, analysis of samples by appropriate statistical methods, testing for validity and significance and conclusion drawing. Two hours lecture and two hours laboratory.

GEO 555. Advanced Cartography. **Three hours.** II.

Prerequisite: GEO 355 or departmental approval.

Advanced techniques of cartographic presentation of data and use of aerial photographs in map construction. One hour lecture and four hours laboratory.

GEO 556. Remote Sensing. **Three hours.** II and Summer Session.

Prerequisite: Departmental approval.

The mechanics and limitations inherent to remote sensing imagery, and the interpretation and use of this data in geographic research.

GRADUATE COURSES

GEO 600. Geography (.................................). **One to nine hours.** A.

A geography course designed for graduate institute participants. Course content will be developed to adequately serve the aims of the Institute. The specific orientation will appeari n parenthesis behind the course title, that is, Earth Science, Regional, Education, etc. The designated semester hours which can be earned will also be specified for a given institute.

GEO 610. Seminar in Physical Geography. **Three hours.** I.
Prerequisite: Adequate background in physical geography as determined by department.
Seminar in some aspect of physical geography dictated by student interest, faculty speciality, or current problems in the field.

GEO 613. Research in Geomorphology. **Three hours.** II and alternate summers.
Prerequisite: Geography 313.
Directed research in selected geomorphological problems, such as hydrologic anomalies, sedimentation rates, quantiative geomorphology, and glacial studies.

GEO 616. Research in Climatology. **Three hours.** II and alternate summers.
Prerequisite: Geography 516.
Directed research in selected climatological problems, such as evapotranspiration, probability of single or multiple occurrences of weather phenomena, and flood forecasting.

GEO 621. Special Problems in Planning Geography. **Three hours.** I and alternate summers.
Prerequisite: GEO 421 or equivalent in related social science.
Directed research in urban or regional planning, such as functional zoning of cities and underdeveloped areas.

GEO 640. Directed Studies in Regional Geography. **Three hours.** A.
Prerequisite: Departmental permission.
Directed studies in micro regional geography. A student may take a maximum of six credit hours under this course number.

GEO 650. Field and Research Methods in Geography. **Three hours.** I and alternate summers.
Prerequisite: Geography graduate student.
Detailed reconnaissance field work, including classification of natural and cultural features, interview procedures, preparation of geographical reports and maps based on field data. Library facilities and research are also included.

GEO 651. Seminar in History and Philosophy of Geography. **Three hours.** II.
Prerequisite: Departmental permission.
A discussion of the history and development of geographic thought, various schools of geography, philosophies in geography, current and future trends.

GEO 690. Geography Seminar. **Three hours.** A.
Prerequisite: Departmental permission.
Selected geography topics for seminar discussion as student demand and faculty background dictate. Students may take this course for a maximum of six credit hours.

GEO 698. Independent Study. **One to three hours.** I, II, S.
Prerequisite: Departmental permission.
Semi-directed research on selected topics.

GEO 699. Thesis. **Three to six hours.** I, II, S.

GEOLOGY (GLY)

D. C. Haney, Chairman; Hunt, Kiefer, and Wigley.

The Department offers two major programs: a major in earth science (teaching) and a major in geology (non-teaching). The geology major is directed toward students pursuing geology as a profession.

Minor programs in earth science and geology may be pursued. Though no distinction is made respective to teaching, the earth science minor is not recommended for students not entering the teaching profession.

Students considering geology as a profession are strongly encouraged to take one year of foreign language.

The first two years of the geology program may be found listed in the Central University section.

Curriculum for a Major in Earth Science (Teaching)

GLY 210, 211, 310, 351, 411, 414, and GEO 210, 216, and 313 are required.

Junior Year	Hours	Senior Year	Hours
ENG 211, 212	6	GLY 351, 411, 414, or AGR 215	9 or 10
GEO 210, 216, 313	9	Humanities Electives	6
GLY 310	3	EDU 462, 463	14
PHY 131, 132	10	SCI 410	3
EDU 317	4		
MAT 321	3		
	35		32 or 33

The second major or minor must be approved by the Chairman of the Department of Geology and the Associate Dean of Education.

Curriculum for a Major in Geology (Non-teaching)

GLY 210, 211, 310, 311, 312, 351, 410, 411, 412, 430, 490 and GEO 313 and 355 are required.

Junior Year	Hours	Senior Year	Hours
GLY 310, 311	6	Elective	6
ENG 211, 212	6	GLY 312, 351, 410, 411, 412, 430, 490	19
PHY 131, 132	10	GEO 313, 355	6
Humanities Elective	6		
*Social Science Elective	3		
	31		31

*May be selected from GSS 248, ECO 231, GEO 330, 477 or 571, POL 300.

Minor Programs in Geology

A minor requires a minimum of 18 semester hours.

Earth Science Minor: GLY 210, 211, 310, 351, GEO 215, MAT 321. For teacher certificates one year of chemistry and/or physics and one year of mathematics (none below the level of college algebra) are required. An Earth Science minor is not recommended for non-teaching majors.

Geology Minor: GLY 210, 211, 310, 410, 411, and 430. For certification in teacher education one year of chemistry and/or physics, one year of mathematics (none below college algebra), and a course in meteorology or climatology are required in addition to the 18 hours of geology.

GEOLOGY (GLY)

GLY 108. Principles of Geology. **Three hours.** I, II, S.

General geology including the study of common minerals and rocks and geologic processes. Designed primarily for non-science majors. Two lecture and two laboratory hours. (Credit not allowed for both GLY 108 and 210.)

GLY 109. Principles of Historical Geology. **Three hours.** I, II, S.
Prerequisite: GLY 108 or equivalent.
Chronologic history of the earth and its inhabitants. Designed primarily for non-science majors. Two lecture and two laboratory hours. (Credit not allowed for both GLY 109 and 211.)

GLY 207. Engineering Geology. **Three hours.** I.
Prerequisite: Pre-engineering majors.
Physical geology related to engineering problems; including structural geology, groundwater, soil study, rock and mineral identification, and geologic and topographic map interpretation. Two lecture and two laboratory hours plus field trips.

GLY 210. Physical Geology. **Four hours.** I, II.
Fundamental composition and structure of the earth, rocks and minerals, and land-form origins and modifying agents. Three lecture and two laboratory hours, plus one field trip.

GLY 211. Historical Geology. **Three hours.** II.
Prerequisite: GLY 210 or departmental approval.
Principles of the interpretation of earth history. Evolution of continents, mountain systems and oceans, and the development of the earth's animals and plants. Two lecture and two laboratory hours.

GLY 300. Geology (....................................). **One to nine hours.** A.
A geology course designed for undergraduate institute participants. Course content will be developed to adequately serve the aims of the Institute. The specific orientation will appear in parenthesis behind the course title, that is, Earth Science, Physical Geology, Education Geology, etc. The designated semester hours which can be earned will also be specified for a given institute.

GLY 302. Earth Science. **Three hours.** I, II, S.
Solar system and the heavenly bodies, their motions and laws which control them, atmosphere and weather, atmospheric motions and their effects, climatic elements and controls, structure and surface forms of the earth, flora, fauna, and resources.

GLY 310. Mineralogy. **Three hours.** I.
Prerequisite: GLY 210, CHE 111.
Mineral classes and occurrences, principles of crystallography, and techniques of mineral identification. Two lecture hours and two laboratory hours.

GLY 311. Optical Mineralogy. **Three hours.** II.
Prerequisite: GLY 310.
Identification of non-opaque minerals by immersion methods using petrographic microscopes. One lecture and four laboratory hours.

GLY 312. Petrology and Petrography. **Three hours.** I.
Prerequisite: GLY 311.
Origin and nature of igneous, sedimentary, and metamorphic rocks. Important rock types are studied in thin sections. Two lecture and two laboratory hours.

GLY 351. Field Geology. **Three hours.** I or II.
Prerequisite: GLY 108 or 210.
Field techniques, plane table surveying, description and measurement of stratigraphic section; fundamental geologic mapping. One lecture and four hours in the field (Saturdays).

GLY 410. Structural Geology. **Three hours.** I.
Prerequisite: GLY 210, 211, MAT 109 or consent of instructor.
Architecture of the earth. Properties and behavior of rocks under different geologic conditions, geologic structure, and solution of structural problems are studied. Two lecture and two laboratory hours plus field trips.

GLY 411. Introduction to Invertebrate Paleontology. **Three hours.** I.
Prerequisite. GLY 211, BIO 141 or departmental approval.
Morphology, distribution in time and space, evolution and paleocology of fossil invertebrates. Two lecture and two laboratory hours.

GLY 412. Stratigraphy and Sedimentation. **Three hours.** A.
Prerequisite: GLY 211.
Principles of stratigraphy and sedimentation illustrated with reference to the geologic columns on a world-wide basis. Two lecture and two laboratory hours.

GLY 414. Geology of Soils. **Three hours.** I.
Prerequisite: CHE 111, 112.
Chemical and physical characteristics of soils. Soil morphology. Includes field trips.

GLY 430. Economic Geology. **Three hours.** II.
Prerequisite: GLY 310, 410.
Formation of mineral deposits and their distribution within the earth's crust. Two lecture and two laboratory hours.

GLY 440. Geology of Kentucky. **Three hours.** I, II, S.
Prerequisite: GLY 108, 210, or departmental approval.
General geologic study of Kentucky including landforms, waters, rock distribution, and soils.

GLY 450. Aerial Photography and Map Interpretation. **Two hours.** A.
Prerequisite: GEO 313 and GLY 410.
Methods of analyzing and interpreting geologic, physiographic, and cultural features from geologic and topographic maps and from aerial photographs using the stereoscope. One lecture and two laboratory hours.

GLY 490. Geology Senior Seminar. **One hour.** II.
Prerequisite: Departmental approval.
Topic selected by class from list submitted by seminar chairman. One hour each week, seminar leadership rotating among students.

GLY 500. Geology (................................). **One to nine hours.** A.
A geology course designed for undergraduate and graduate institute participants. Course content will be developed to adequately serve the aims of the Institute. The specific orientation will appear in parenthesis behind the course title, that is, Earth Science, Physical Geology, Educational Geology, etc. The designated semester hours which can be earned will also be specified for a given institute.

GLY 510. Sedimentology. **Three hours.** A.
Prerequisite: GLY 411 or departmental approval.
Study of sediments. Physical condition of deposition, time of formation of deposits, and provenance emphasized. Size, shape, and composition of sediments analyzed statistically. Two lecture and two laboratory hours.

GLY 532. Geology of Fuels. **Four hours.** A.
Prerequisite: GLY 430.
Origin, occurrences, and uses of natural fuels. Three lecture and two laboratory hours, plus field trips as deemed appropriate.

GLY 533. Industrial Minerals. **Four hours.** A.
Prerequisite: GLY 430.
Origin, occurrence, and use of industrial rocks and minerals. Three lecture and two laboratory hours.

GLY 598. Special Problems in Geology. **Three to four hours.** I, II, S.
Prerequisite: Departmental approval.
Course topic determined by student and instructor.

GRADUATE COURSES

GLY 600. Geology (................................). **One to nine hours.** A.
A geology course designed for graduate institute participants. Course content will be developed to adequately serve the aims of the institute. The specific orientation will appear in parenthesis behind the course title, that is, Earth Science, Physical Geology, Education Geology, etc. The designated semester hours which can be earned will also be specified for a given institute.

GLY 610. Geotectonics. **Three hours.** A.
Prerequisite: Departmental approval.
Topic selected by students and instructor in the area of structural geology.

HISTORY (HIS)

G. W. Robinson, Chairman; Adams, Algier, Berge, Coe, Duszak, R. E. For-

derhase, N. Forderhase, Graybar, Keen, C. Lewis, Mutersbaugh, Odum, O'Neill, Randall, Stebbins, Tsao, Yeo.

A student may major in History (teaching) by completing the following courses: HIS 202, 203, 448, 449, six hours non-restricted elective in history, six hours elective in U. S. History, six hours elective in non-U. S. History, and HIS 466.

For a minor in history (teaching and non-teaching) the following courses are required: HIS 202, 203, and twelve hours of upper division electives in history.

The history major (teaching) requires 66 hours in the Junior and Senior years. Courses for a history major for the first two years may be found in the Central University College section. Courses for the last two years are as follows:

Junior	Hours
EDU 317	4
Non-U.S. HIS electives	6
U.S. HIS electives	6
General Education Science or Math elective and SCI 310	6
HIS elective or GSS 248	3
Electives (Minor)	9
	34

Senior	Hours
HIS 448, 449, 466, and three hours HIS elective	12
EDU 462, 463	14
Electives (Minor)	6
	32

The history major (non-teaching) requires 63 hours in the Junior and Senior years. Courses for a history major for the first two years may be found in the Central University College section. Courses for the last two years are as follows:

Junior	Hours
Non-U.S. HIS electives	6
U.S. HIS electives	6
General Education Science or Math elective and SCI 310	6
HIS elective or GSS 248	3
Three hours foreign language	3
Electives (Minor)	9
	33

Senior	Hours
HIS 448, 449	6
Electives (Minor)	3
Electives	21
	30

HISTORY AND SOCIAL SCIENCE AREA

The student who wishes to take an area in History and Social Science (teaching) must take the following courses: HIS 202, 203, 448, 449, 498, 499, six hours elective U.S. History, six hours elective in non-U.S. History, and HIS 466. Any four of the following five social science fields may be elected: Anthropology, Economics, Geography, Political Science and Sociology. The student must take six hours from each of the four fields elected in the following way: ANT 202 and three hours upper division Anthropology; ECO 230 and 231; GEO 101 and three hours upper division Geography; POL 101 and three hours upper division Political Science; SOC 231 and three hours upper division Sociology.

There is no non-teaching history and social science area major.

The history and social science area major (teaching) requires 66 hours in the Junior and Senior years. Courses for an area in history and social science for the first two years may be found in the Central University College section. Courses for the last two years are as follows:

Junior	Hours	Senior	Hours
EDU 317	4	HIS 498 or 499, 448, 449, 466	12
U.S. HIS electives	6	Social Science electives	6
Non-U.S. HIS electives	6	EDU 462, and 463	14
HIS 498 or 499	3		
Social Science elective or GSS 248 and Social Science electives	9		
General Education Science or Math and SCI 310	6		
	34		32

GRADUATE PROGRAMS

Department of History offers three advanced degree programs: Master of Arts with thesis, Master of Arts without thesis, and Master of Arts in Education with emphasis in Secondary Education-History.

Candidates for the Master of Arts with thesis are required to prepare in one of two major fields—American History or European History, plus a minor field. Degree requirements include, in addition, successful completion of the following: (1) Graduate Record Examination, (2) a foreign language examination, (3) a comprehensive written examination over the fields of major and minor interest, (4) a thesis, and (5) an oral defense of the thesis.

Candidates for the Master of Arts without thesis are required to prepare in one of two major fields, either American or European History, plus two minor fields and must complete 36 hours altogether. Degree requirements include, in addition, successful completion of the following: (1) Graduate Record Examination, (2) comprehensive written examinations over major and minor fields, and (3) oral examination of the candidate's mastery of historical knowledge.

Candidates for the Master of Arts in Education (Secondary Education-History) are required to prepare in a major field—American or European History plus a minor field. Degree requirements include, in addition, successful completion of the following: (1) Graduate Record Examination, (2) ten hours of course work in Education, and (3) an oral examination over the fields of major and minor interest.

See the **Graduate Bulletin** for additional information concerning the M.A. programs in history.

HISTORY (HIS)

HIS 202. American History to 1877. **Three hours.** I, II.

Discovery, exploration and conquest by nations; colonization; colonial wars; alienation of the colonies from England and eventual revolution; establishment of government and development of nationalism; westward movement; Jacksonian democracy and reform; slavery controversy; Civil War and reconstruction.

HIS 203. American History since 1877. **Three hours.** I, II.

Rise of industrialism; problems of the American farmer; social and cultural advance; the last American frontier; American imperialism; World Wars; Progressive movement and New Deal; America as a great power since World War II.

HIS 339. Medieval Civilization. **Three hours.** A.
Survey of Western Civilization, Byzantine, and Saracenic cultures from the breakdown of the Roman Empire until emergence of modern national states.

HIS 340. (Formerly HIS 30 and 241.) European History from 1300 to 1815. **Three hours.** A.
Renaissance and Reformation; rise of the national state and royal absolutism; decline of manorialism; rise of capitalism and mercantile system; British revolutions of the seventeenth century; international rivalries; age of reason and enlightened despotism; French Revolution and Napoleon.

HIS 345. English History to 1603. **Three hours.** I.
Roman Britain; Anglo-Saxon Civilization; Normans and Angevins; Norman Feudalism; growth of royal power; English Common Law; baronial opposition to the Crown; rise of Parliament; medieval government and administration; Hundred Years' War; York vs. Lancaster; transition from medievalism; Tudor Monarchy; Reformation; Parliamentary progress; Elizabethan Age.

HIS 346. English History from 1603 to the present. **Three hours.** II.
Early Stuarts and national crisis; Civil War and Interregnum; later Stuarts; Imperial expansion and intellectual ferment; Hanoverian Era; Parliamentary and Cabinet government; beginnings of idustrialization; impact of French Revolution and Napoleonic Wars; Age of Reform; Victorian Liberalism and culture; Industrialization; two World Wars and after.

HIS 347. (Formerly HIS 40.) Recent and Current World History, 1914 to the present. **Three hours.** A.
World War I; peace settlement of 1919; problems of security; war debts; and reparations; disintegration of peace settlement; World War II.

HIS 356. German History from the French Revolution to 1870. **Three hours.** A.
Characteristics of German Civilization from the Reformation to the French Revolution; the French Revolution and the rise of German nationalism; the Congress of Vienna; the rise of Liberalism; Revolutions of 1848 and the Frankfurt Assembly; the defeat of Liberalism and Austria.

HIS 364. History of Russian-American Relations. **Three hours.** A.
Origin of Russian-American relations during the Colonial Period. Development of commercial relations and beginning of Russian-American diplomacy of Imperial Russia. Evolution of Russian-American relations during the 20th century Soviet Russia.

HIS 372. History of Southeast Asia. **Three hours.** A.
History of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia, and the Philippines from the earliest times to the present. Special attention given to economic, social, and cultural change.

HIS 405. (HIS 505 in 1966-67.) America's Westward Expansion. **Three hours.** A.
Colonial frontier; conflicts of Empire; trans-mountain movements; Ohio-Mississippi valleys; Indian problems; Manifest Destiny; the West and the sectional struggle; trans-Mississippi frontier of mining, railroads, cattle, and agriculture; West versus East.

HIS 406. (HIS 506 in 1966-67.) The South in American History. **Three hours.** A.
Colonial developments in society and politics; origins of sectional consciousness; institutions of Negro slavery and plantation system; southern ideas and ideals; Civil War and Reconstruction; modern South.

HIS 433. (HIS 533 in 1966-67.) American Diplomatic History. **Three hours.** A.
American foreign relations from 1776 to present, emphasis on development of major trends such as isolationism, imperialism, and internationalism.

HIS 437. (Formerly HIS 432, first part.) American Constitutional History to 1865. **Three hours.** I.
European and colonial origin of the Constitution; creation and ratification of the Constitution; Jeffersonianism and Judicial Nationalism. Nullification doctrine and sectional conflict. Secession and Civil War.

HIS 438. (Formerly HIS 432, last part.) American Constitutional History since 1865. **Three hours. II.**

Constitutional reconstruction. Revolution in due process of law. National economic regulation. Reaction and laissez faire. Constitutional revolution; New Deal, New Federalism and civil liberties.

HIS 445. (HIS 545 in 1966-67.) Europe from 1815 to 1870. Three hours. A.

Congress of Vienna and reaction following Napoleonic wars; revolutions of 1820, 1830, and 1848; liberalism, realism, and nationalism; growth of science and technology.

HIS 446. (HIS 546 in 1966-67.) Europe from 1870 to 1914. **Three hours.** A.

Survey of the rapidly growing European society, economy, and worldwide impact in the period prior to the First World War; industrialism; imperialism; diplomatic background of World War I.

HIS 448. (Formerly HIS 55a and 448a.) Topics in History and Social Science. **Three hours. I, II.**

An introduction to the elements of research in social science and history. Development of facility of expression in writing. Study topics made on basis of training and special interests of students. Topics may be selected in American or European History.

HIS 449. Readings in History. **Three hours. I, II.**

Introduction to the most important literature in various historical fields. Varies each semester according to the specialties of instructor.

HIS 461. (Formerly HIS 46.) Kentucky History. **Three hours.** I, II.

General, social, economic, and political history, influence in development of American democracy; periods of leadership in the nation; educational system; her great men and women; historical sources.

HIS 466. (Formerly Social Science 466.) Teaching of the Social Studies in the Secondary School. **Three hours. I, II.**

Trends and objectives of the social studies; techniques involved in the learning process; materials, both basic and supplementary, to enrich teaching; various methods of teaching; evaluation of learning processes; understanding of social studies as they develop civic competence and an understanding of social relations.

HIS 475. (HIS 575 in 1966-67.) Islamic Empires. **Three hours. I.**

Growth and spread of Islam, the Umayyed, Abbasid, Fatimid, and Ottoman Empires. Focus on Islamic institution and broad comparative analysis.

HIS 476. (HIS 576 in 1966-67.) The Modern Middle East. **Three hours.** II.

Breakdown of the Ottoman Empire, growth of Arab nationalism and emergence of Arab states, Iran and Turkey, their problems in the contemporary world.

HIS 483. Modern India. **Three hours. I, II.**

Present-day India, emphasizing post independence developments. Some stress on ancient influences upon the modern scene such as religious, social institutions, foreign rule, economic systems.

HIS 498. **(CL PHI 498.)** **(HIS 598 in 1966-67.)** Ideological Foundations of Western Civilization. **Three hours. I, II.**

Introduction to basic concepts in the ideological heritage of the Western World from the end of the medieval age through the Enlightenment. Reading consist largely of selections from great books and documents in religion, science, economics, political theory, and philosophy.

HIS 499. **(CL PHI 499.)** **(HIS 599 in 1966-67).** Ideological Foundations of Western Civilization. **Three hours. I, II.**

Introduction to basic concepts in the ideological heritage of the Western World from the Enlightenment to the present. Readings consist largely of selections from great books and documents in religion, science, economics, political theory, and philosophy.

HIS 501. American Colonial Period. **Three hours.** A.

Political and social history of the thirteen colonies and their neighbors; European background, settlement, westward expansion; intercolonial conflicts; beginnings of culture; colonial opposition to imperial authority.

HIS 502. (Formerly HIS 402.) American Revolution and the Constitution. **Three hours.** A.

Colonial background of Revolution; internal and external nature of Revolution; problems associated with Confederation; events leading to the American Constitution.

HIS 503. (Formerly HIS 403.) Jacksonian Democracy. **Three hours.** A.

Criticism of the concept. Party issues, nationalism, and the importance of the age.

HIS 504. (Formerly HIS 404.) The Ante-Bellum Period. **Three hours.** A.

Political sectionalism; young nationalism; economic transition; democracy's mind; politics as an art.

HIS 507. (Formerly HIS 407.) Civil War and Reconstruction. **Three hours.** A.

Ante-bellum South, ante-bellum North; anti-slavery agitation, growth of sectional consciousness, recurrent crises, secession, war; military operations, internal developments in the North and South; Confederate collapse; problems of reconstruction; social political, and economic reconstruction; aftermath.

HIS 508. The Emergence of American Nationalism, 1789-1824. **Three hours.** A.

Federalists, Republicans and the Constitution; America and the French Revolution; War of 1812; break up of political parties; emergence of new political divisions.

HIS 510. The Gilded Age, 1877-1898. **Three hours.** A.

America's industrial expansion; rise of labor unions; the farm protest; political bossism.

HIS 511. The Progressive Era and World War I, 1898-1920. **Three hours.** A.

Progressive movement; imperialism; American entry into war; the Treaty of Versailles, League of Nations.

HIS 512. Prosperity, Depression, and War, 1920-1945. **Three hours.** A.

Internationalism and isolationism; prosperity in the twenties; depression and efforts to cope with it; the coming of World War II; United States participation in war.

HIS 513. (Formerly HIS 412, last part.) The United States and World Responsibility, 1945-present. **Three hours.** A.

Problems of post-war adjustment; the cold war; the affluent society; problems inherent on world leadership.

HIS 520. (Formerly HIS 420.) The Negro in American History. **Three hours.** A.

African heritage; middle passage; the peculiar institution; the Negro and the Civil War; reconstruction; the strange career of Jim Crow; modern emancipation; black nationalism.

HIS 530. American Social and Intellectual History to 1850. **Three hours.** A.

European influences; the colonial mind; revolutionary attitudes; New England's leadership; the movement of protest and reform; the rise of a native literature.

HIS 531. American Social and Intellectual History since 1850. **Three hours.** A.

The Civil War; Protestantism and Capitalism; Social Darwinism; literature of naturalism and realism; the twentieth-century mind.

HIS 535. (Formerly HIS 320.) Ancient History in the Near East and Greece. **Three hours.** A.

Ancient Near East and Greece from prehistoric times to Alexander the Great and his successors; early food production; rise of civilization in Babylonia and Egypt; development of economic and political institutions; art; science; literature; and religion.

HIS 536. (Formerly HIS 321.) History of Rome. **Three hours.** A.
Rome from prehistoric village to the dominant power to the Mediterranean world; rise and decline of the Empire in the West.

HIS 540. (Formerly HIS 440.) Renaissance and Reformation. **Three hours.** A.
Transformation of European civilization from medieval to modern period, 1350-1650. Emphasis upon changes in political, religious, and economic institutions of Europe, reflection of these changes in intellectual thought.

HIS 541. (Formerly HIS 441.) The Age of Enlightenment. **Three hours.** A.
European intellectual history, 1650-1789; scientific revolution, Cartesian and Newtonian schools; Enlightenment as an European phenomenon; emphasis on the eighteenth century as an age of political and social criticism.

HIS 542. (Formerly HIS 422.) The French Revolution and Napoleon, 1789-1815. **Three hours.** A.
Background, analysis of various stages of the Revolution and their reflection of foreign policy; establishment of the First Empire, reasons for its collapse; effects of the Revolution upon France and Europe; 1815 as a watershed of European history.

HIS 544. (Formerly HIS 444.) Modern European Intellectual History. **Three hours.** A.
European civilization in the 19th and 20th centuries, emphasis upon institutions, ideas, and cultural forms distinguishing the period.

HIS 547. Tudor England, 1485-1603. **Three hours.** A.
Henry VII and resurgence of the monarchy; Henry VIII and revolt against Rome; Protestant Reformation; Cromwell's reforms; Edward VI and Marian Reaction, character and policies of Elizabeth I; Elizabethan Settlement; Catholics vs. Puritans; Elizabethan diplomacy and Spanish War; Tudor Constitution and rise of Parliament; Elizabethan Renaissance.

HIS 548. Stuart England, 1603-1714. **Three hours.** A.
Characters and policies of early Stuarts; constitutional conflicts; Anglicanism vs. Puritanism; collapse of Tudor Constitution; English Civil War; Cromwell and Interregnum; Charles II and Restoration; growth of the Empire; Glorious Revolution; Britain as a Great Power; reign of Queen Anne.

HIS 550. (Formerly HIS 450.) Emergence of Victorian Britain. **Three hours.** A.
Economic and intellectual backgrounds of 19th century; French Revolution and Napoleonic threat; reaction and reform after 1815; Victorian thought; origins of the Commonwealth; age of Palmerston in foreign affairs.

HIS 551. (Formerly HIS 451.) Britain and the Empire in Adversity, 1867-present. **Three hours.** A.
Characteristics of a new era; Reform Bill of 1867; economic and intellectual trends in late 19th century; decline of liberalism in politics; revival of imperialism; coming of World War I; emergence of the Commonwealth; impact of World War II; Conservative-Labor contention; Britain's role in the "cold" war.

HIS 557. (Formerly HIS 470.) Germany since 1870. **Three hours.** A.
Background, rise of Prussia; German nationalism and particularism; creation of the German Empire, its rule under Bismarck and William II; Peace Treaty and Weimar Republic; Nazi Germany; Second World War, Allied Occupation.

HIS 560. (Formerly HIS 360.) History of Russia I. **Three hours.** A.
Formative period of Slavic states. Establishment and development of the Kievan and Muscovite states. Social and economic forces that led to the rise of autocracy. Foreign policy from Peter the Great to Alexander I.

HIS 561. (Formerly HIS 361.) History of Russia II. **Three hours.** A.
Nineteenth century to Revolution of 1917. Growth of revolutionary thought and action. Revolutions of 1825, 1905, and 1917. Serfdom, agrarian reforms, industrialization, literature, art, science of the 19th century.

HIS 562. (Formerly HIS 362.) History of the Soviet Union. **Three hours. II.**
The 1917 revolution to the present. Establishment of the Soviet regime; New Economic Policy; Five-Year Plans; Soviet System of government; World War II, Post-War years; cultural trends underlying political, economic, and social developments of the Soviet era.

HIS 566. (Formerly HIS 480.) Imperial Spain, 1489-1815. **Three hours.** A.
Political and cultural history from the period of its predominance in European and American affairs until its decline in the 17th and 18th centuries.

HIS 570. (Formerly HIS 370.) Far Eastern History to the 19th Century. **Three hours.** I.
Survey of China and Japan from ancient times to the end of the 18th century, emphasizing characteristic political, economic, social, religious, and cultural developments. Reference made to peripheral areas.

HIS 571. (Formerly HIS 371.) Far Eastern History in the 19th and 20th centuries. **Three hours.** II.
Survey of China and Japan in the 19th and 20th centuries. Attention given to impact of the West, intellectual and cultural movements, political, economic, and social developments.

HIS 580. (Formerly HIS 350.) History of Latin America. **Three hours.** I.
European and American background; discovery, conquest, expansion; techniques of government; social and economic institutions to independence.

HIS 581. (Formerly HIS 351.) History of Latin America. **Three hours.** II.
Comparative treatment of political, economic, and social institutions of Latin American republics from attainment of independence to the present.

HIS 582. History of Mexico. **Three hours.** A.
Mexican History from the Spanish conquest to present with emphasis on Mexican Revolution of 1910 and its effect on political, economic, social, and military institutions.

GRADUATE COURSES

HIS 601. Survey of Historiography. **Three hours.** I.
Seminar approach to the history of historical writings and interpretation. Attention to selected works of great historians from Herodotus to the present. Required of all candidates.

HIS 603. Historical Criticism. **Three hours.** A.
Seminar in fundamental techniques of the historian; using basic bibliographical tools; locating and evaluating source materials; writing book reviews; critically interpreting historical evidence. Required of all candidates.

HIS 604. (Formerly HIS 504.) History as a Social Science. **Three hours.** A.
Scientific approach to social problems and their historical interpretation; analysis of economic, social, intellectual, and political backgrounds of contemporary civilization.

HIS 605. The Humanities approach to History. **Three hours.** A.
The "American Character" and its development as an example of the humanities approach to the study of history.

HIS 606. Problems in Interpreting World History. **Three hours.** A.
Seminar on selected controversial development in World History.

HIS 607. Problems in Interpreting American History. **Three hours.** A.
Seminar on selected controversial developments in World History.

HIS 610. Pro-Seminar in American History. **Three hours.** A.
Readings and investigations in a field other than the student's specialty. Required of all American History majors.

HIS 611. Seminar in American History. **Three hours.** A.
Techniques of research, note-taking, documentation; occasional lectures and class discussions of major problems and controversies. Fields vary each semester. Required of all American History majors.

HIS 620. Topics in Early 19th Century English History, 1815-1867. **Three hours.** A.
Seminar in the Victorian era. Students conduct original research; prepare papers; submit work to class for criticism and discussion. Required of all English History majors.

HIS 649. Readings and Research. **Three hours.** A.
Independent study in a specific field.

HIS 698. Thesis Tutorial I. **Three hours.** A.

HIS 699. Thesis Tutorial II. **Three hours.** A.

MATHEMATICS (MAT)

B. R. Lane, Chairman; Brashear, G. Creamer, Flora, Higginbotham, Houston, A. Howard, A. McGlasson, Nayle, Ng, Pierce, Scorsone, Short, Stephens, K. Wallace.

A student may major in Mathematics (teaching) by completing the following courses: MAT 111, 112, 213, 308, 334, 370, 380 and six hours elected from courses numbered above 300. MAT 467 will be taken during the semester in which the student does student teaching.

A student may major in Mathematics (non-teaching) by completing the following courses: MAT 111, 112, 213, 308, 334, 370, 453, 454, 480 and six hours elected from courses numbered above 300 (except 467).

All Mathematics majors must take PHY 201 and 202 (or equivalent courses approved by the Chairman of the Mathematics Department).

A student may minor in Mathematics (teaching or non-teaching) by taking the following courses: MAT 109, 111, 112, 213 and three hours elected from courses numbered above 300 (except 467). If a student is eligible to begin a minor with MAT 111, he will elect six hours of appropriate courses numbered above 300 after completion of MAT 213.

The Mathematics Department, in cooperation with the Graduate School and the College of Education, also offers an emphasis in Mathematics applying toward the M.A. degree in Education.

The regulations for the M.A. degree in Education program may be found in the College of Education section of the **Graduate Bulletin.** Students obtaining the M.A. degree in Education with the emphasis in Mathematics must select courses in conference with their advisor.

The major in Mathematics (teaching) requires a minimum of 63 hours in the Junior and Senior years. The major in Mathematics (non-teaching) requires a minimum of 63 hours in the Junior and Senior years. The first two years of these curricula may be found in the Central University College section.

Courses for the last two years (teaching) are as follows:

Junior Year	Hours	Senior Year	Hours
EDU 317	4	MAT Electives	3 or 6
MAT 308, 334, 370	9	MAT 467	3
MAT 380 or Elective	3	EDU 364, 463	14
ENG 209 or 211, 210 or 212	6	Electives (minor)	11 or 12
Humanities Electives	6		
Electives (minor)	3-6		
	29-32		31-35

Courses for the last two years (non-teaching) are as follows:

Junior Year	Hours	Senior Year	Hours
MAT 308, 334, 453	9	MAT 454, 480	4
MAT 370 or Elective	3	MAT Electives	3 or 6
Humanities Electives	6	Electives	23-26
Electives (minor)	12-15		
	30-33		30-36

MATHEMATICS (MAT)

MAT 107. (Formerly MAT 10.) College Algebra. **Three hours.** I, II.

For students who are not majors or minors in Chemistry, Mathematics, or Physics. Sets and logic; number systems: integers, rational numbers, real numbers, complex numbers; equations and inequalities; functions and their graphs; systems of equations.

MAT 109. Algebra and Trigonometry. **Five hours.** I, II.

May not be taken for credit by students who have credit for MAT 107 or 113; offered for students who need this background for MAT 111. Sets; real numbers, functions and graphs; trigonometric, exponential and logarithmic functions; polynomial functions, equations and inequalities; inverse trigonometric functions; complex numbers.

MAT 111. Analytic Geometry and Calculus I. **Four hours.** I, II.

Prerequisite: MAT 109 or equivalent.

Rectangular coordinates; straight lines; limits and continuity; the derivative; algebraic functions and their derivatives; applications of differentiation; the differential; the law of the mean and applications.

MAT 112. Analytic Geometry and Calculus II. **Four hours.** I, II.

Prerequisite: MAT 111.

Continuation of MAT 111. Definite integral and applications; conics; differentiation and integration of transcendental functions; parametric equations and polar coordinates.

MAT 200. A Cultural Approach to Mathematics. **Three hours.** I, II.

Not open to Mathematics majors. Provides general college student with an understanding of the place of mathematics in Western culture. Logical structure of mathematics; mathematics of the physical world; mathematics of collection and analysis of data. Emphasis placed on the development of appreciation of the power and beauty of mathematics, also its many applications to other fields of study.

MAT 201. Understanding Arithmetic. **Three hours.** I, II.

For future teachers in elementary grades. Emphasis put on meaning rather than upon manipulation as such. Topics covered are number and numerals, sets and numbers, number operations, fundamental operations, number scales, number structure, fractions, decimals and the real number system.

MAT 202. Understanding Elementary Mathematics. **Three hours.** I, II.

Prerequisite: MAT 201.

Continuation of MAT 201 with the introduction of the ideas of modern mathematics, elementary logic, geometry, number concept, extending the number system, numeration, exponents, measurement, functions and graphs.

MAT 207. Introduction to Statistics. **Three hours.** I, II.
Prerequisite: MAT 107 or equivalent.

Elementary probability, probability distributions, sampling, estimation, testing hypotheses, correlation and regression.

MAT 211. (CL PHI 211.) Introductory Logic. **Three hours.** I, II.

Principles of modern logic through the propositional calculus and elementary quantification. Attention paid to historical development and philosophical foundations of logic.

MAT 213. Analytic Geometry and Calculus III. **Four hours.** I, II.
Prerequisite: MAT 112.

Continuation of MAT 112. Formulas and methods of integration; infinite series; hyperbolic functions; solid analytic geometry; partial derivatives; multiple integrals.

MAT 308. Introduction to Modern Algebra I. **Three hours.** I, II.
Prerequisite: MAT 213.

Fundamental concepts: sets, mappings, relations and operations; rings; isomorphism; integral domains and properties of integers; fields, rational numbers, real numbers, complex numbers.

MAT 309. Introduction to Modern Algebra II. **Three hours.** II.
Prerequisite: MAT 308.

Continuation of MAT 308. Polynominals; groups; vector spaces; systems of linear equations; determinants; linear transformations and matrices.

MAT 334. (Formerly MAT 534). Modern College Geometry. **Three hours.** I, II.
Prerequisite: High School Geometry and MAT 112.

Logical systems and basic laws of reasoning; special topics of axiomatic geometry; Menelaus's and Ceva's theorems; harmonic elements and cross ratio; projective geometry; basic axioms; quality; Desargue's theorem; perspective figures; coordinate projective geometry; transformation theory.

MAT 370. Mathematical Statistics I. **Three hours.** I, II.
Prerequisite: MAT 213.

Algebra of sets, set functions; distributions of random variables, conditional probability and stochastic independence, correlation coefficient; special distributions; mathematical expectations of functions of random variables; random intervals, confidence intervals for means and variances, Bayesian interval estimates; order statistics, limiting distributions, central limit theorem.

MAT 371. Mathematical Statistics II. **Three hours.** I.
Prerequisite: MAT 370.

Hypothesis testing, confidence intervals, special distribution functions, order statistics, central limit theorem, correlation and regression, analysis of variance.

MAT 372. Introduction to Digital Computers and Programming. **Three hours.** I.
Prerequisite: MAT 112 or consent of the instructor.

Solving of problems of mathematics, science, engineering, statistics, and other sciences by computer. FORTRAN IV is primary language to be developed. Emphasis on programming; however, development of the FORTRAN language is illustrated with elementary numerical methods and scientific applications. Students write programs for the H 200 computer.

MAT 380. History of Mathematics. **Three hours.** II.
Prerequisite: MAT 213.

Number systems; Babylonian, Egyptian and Greek contributions; Pythagorean mathematics; Euclidean and non-Euclidean Geometry; three famous problems of antiquity; Hindu and Arabian contributions; mathematics during the Dark Ages and Renaissance; modern mathematics, beginning with the invention of analytic geometry and calculus.

MAT 453. (Formerly MAT 41 and MAT 553). Differential Equations. **Three hours.** I, II.

Prerequisite: MAT 213.

Differential equations of the first order; applications; singular solutions; linear equations with constant coefficients; miscellaneous methods for solving equations for higher order than the first; integration in series; total differential equations.

MAT 454. (Formerly MAT 42 and MAT 554). Advanced Calculus. **Three hours.** I.

Prerequiste: MAT 213.

Review of elementary calculus with attention focused on the concepts of function and limit; real number system; continuity; least upper bounds; nested intervals; continuous functions; Cauchy's generalized law of the mean; indeterminate forms; Taylor's series with remainder; functions of several variables; homogeneous functions; implicit functions; partial differentiation; allied topics.

MAT 467. The Teaching of High School Mathematics. **Three hours.** I, II.

Prerequisite: Eighteen hours of college mathematics or consent of Chairman.

History of Mathematics; historical background of the mathematics curriculum; new developments in secondary school mathematics; significance for the modern curriculum; improvement programs for school mathematics; examination of texts and materials; consideration of some of the newer topics, such as sets and bases other than ten.

MAT 480. Seminar. **One hour.** II.

Prerequisite: Senior standing.

Individual investigation of selected topics; presentation and discussion of results; introduction to use of journals and other sources of material. Meets two hours weekly.

MAT 505. Foundations of Mathematics. **Three hours.** I.

Prerequisite: MAT 308 or consent of instructor.

Nature of mathematical thought; logical systems, postulational concepts and methods; consideration of the work of Hilbert, Peano, Whitehead, Russell, and others.

MAT 506. Number Theory. **Three hours.** II.

Prerequisite: MAT 308 or consent of instructor.

Fundamental properties of integers; linear Diophantine equations; linear and quadratic congruences; famous problems of number theory.

MAT 508. (Formerly MAT 408.) Modern Algebra I. **Three hours.** A.

Prerequisite: MAT 213 and 308, or consent of instructor.

Some fundamental concepts, sets, mapping, equivalence relations, operations; rings and integral domains; isomorphisms; some properties of the integers; consideration of fields with emphasis on construction of the various number systems; groups.

MAT 509. (Formerly MAT 409.) Modern Algebra II. **Three hours.** A.

Prerequisite: MAT 508.

Matrix algebra; vector spaces; systems of linear equations; linear transformations.

MAT 533 (Formerly MAT 333.) Non-Euclidean Geometry. **Three hours.** II.

Prerequisite: MAT 213 or consent of instructor.

Finite geometries; foundations of Euclidean geometry with investigations of the tacit assumptions of Euclid; Hilbert's postulates; Euclid's Fifth Postulate; discovery of Non-Euclidean geometry; hyperbolic plane geometry; elliptic plane geometry; consistency of the Non-Euclidean geometries.

MAT 556. (Formerly MAT 456.) Vector Analysis. **Three hours.** II.

Prerequisite: MAT 213 and PHY 202 or equivalent.

Algebra, geometry and calculus of vectors and applications.

MAT 571. Introduction to Numerical Analysis. **Three hours.** II.

Prerequisite: MAT 213 and 372 or equivalent.

Computer-oriented numerical methods course. Basic operations: Computation, approximation, interpolation, numerical solution of equations, numerical integration, matrices and systems of equations, numerical solution of ordinary differential equations. Exhibits techniques available; attempts to derive the relevant formulas and consider the mathematical analysis. Out-of-class laboratory work required.

GRADUATE COURSES

MAT 607. (Formerly MAT 507.) Foundations of Secondary School Mathematics I. **Three hours.** A.

Designed for secondary school teachers of mathematics working toward the Master of Arts in Education degree. Topics include number and numeration; fundamental number theory; sets, relations, and functions; algebraic systems; and consideration of these topics as they are likely to affect the modern high school mathematics program.

MAT 608. (Formerly MAT 508.) Foundations of Secondary School Mathematics II. **Three hours.** A.

Continuation of MAT 607. Topics include history and development of geometry; logic and nature of proof; foundations of synthetic and analytic Euclidean geometry; discovery of non-Euclidean geometries; vector approaches to the study of geometry; consideration of these topics as they are likely to affect the mathematics program in the modern high school.

MAT 610. Introduction to Topology. **Three hours.** A.

Prerequisite: MAT 508 or consent of instructor.

Set theory; the real line; topological spaces; metric spaces; arcs and curves.

MAT 650. Real Analysis. **Three hours.** A.

Prerequisite: MAT 454.

Real and complex number systems; elements of set theory; numerical sequences and series; continuity; differentiation; the Riemann-Stieltjes Integral; sequences and series of functions.

MUSIC (MUS)

A. J. Broekema, Chairman; Amboise-Chaumont, Baker, Cooper, Craig, Grose, Hartwell, Henrickson, Hensel, Hoagland, N. Lancaster, T. Lancaster, McPherson, Oppelt, F. Peterson, Rigby, Riseling, Robison, Staples, Stephenson, Surplus, Turnbull, Wolfrom.

The student may choose from the following curricula:

The Bachelor of Music Education (teaching), with performance emphasis in voice, keyboard, string or wind instruments. A provisional high school certificate with endorsement for elementary teaching in both vocal and instrumental music is provided on completion of requirements in music as follows:

Theory, History and Literature

MUS 181, 182, 281, 282, 371, 372. 383 or 584, 480

Music Education and Techniques

MUS 366, 367, 368, 378, 379

Applied Major Instrument or Voice

Minimum of 7 semesters of study*

Applied Classes

MUS 130, 251, 351, 354, 320**

Secondary Piano***

MUS 110, 111, and 113 for Voice emphasis

*Admission to upper division applied music study will be by general proficiency examination. Students will be expected to enroll for study in their major instrument during each semester of residence. The student will present the equivalent of a half recital before graduation.

**Instrumental student will take Mus 130, 251, and 351 for two semesters each, unless excused by proficiency examination. Voice or keyboard emphasis will omit MUS 354 with MUS 320 not required of voice students.

***Admission to the Teacher Education Program will be granted after completion of this requirement or demonstrated proficiency in examination.

Ensembles

Student must be enrolled in a major ensemble which reflects his major applied area during each semester of residence.

The Bachelor of Music* (non-teaching), with majors in voice, piano, organ, wind instruments, and church music. Music requirements as follows:

Theory

MUS 181, 182, 281, 282, 480, and 581, or 582, or 383

History and Literature

Mus 371, 372; 2-3 hours of electives from Upper Division courses;

Church Music major required minimum of 3 hours of MUS 415, 416, 417, or 418

Applied Major Instrument or Voice**

Two hours credit per semester in 1st & 2nd years
Four hours credit per semester in 3rd & 4th years
Two hours credit for graduation recital
The Church Music Major will elect applied music for two hours per semester for four years.

Applied Secondary Instrument

Secondary Instrument selected to relate to Major Applied field and elected for one hour credit each semester for two years.

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*Students electing this degree program will be required to pass proficiency examinations in the major and secondary performance areas, and in keyboard, before final admission to this degree program is granted.

**During the junior year, a one-half recital is required; during the senior year, a full recital is required. Church Music major requires a one-half recital only.

Related Courses

Piano, Organ & Voice Majors: MUS 550 & 551
Wind, String & Church Music Majors: MUS 550, 551, 383, 366

Ensembles

Each student must be enrolled in a major ensemble which reflects his major applied area during each semester of residence. Additional hours in chamber music, accompanying, opera workshop, at the recommendation of the Department of Music.

The Bachelor of Arts, with a First or Second Major in Music (teaching), Major in Music (non-teaching), or Minor in Music (non-teaching).

Music requirements as follows:

FIRST MAJOR IN MUSIC (teaching)

Theory, History and Literature

MUS 181, 182, 371, 372

Applied Major Instrument or Voice
Minimum of 4 semesters of study

Secondary Piano
MUS 110, 111

Applied Classes
Keyboard Major: MUS 320
Wind or String Major: MUS 130, 251, 351 for two semesters each, 354

Music Education and Techniques
MUS 366, 378, 379, 367 (Instrumental), 368 (Voice or Keyboard)

SECOND MAJOR IN MUSIC (teaching)

The requirements for a second major are the same as for the first major except that MUS 367 and 368 are not required.

MAJOR IN MUSIC (non-teaching)

Theory
MUS 181, 182

History and Literature
MUS 371, 372

Minimum of 10 hours of electives in music

MINOR IN MUSIC (non-teaching)

Theory
MUS 181, 182

History and Literature
MUS 371, 372

Minimum of 4 hours of electives in music

BACHELOR OF MUSIC EDUCATION

with Voice or Keyboard Emphasis

The first two years may be found in the Central University College section.

Junior	**Hours**	**Senior**	**Hours**
EDU 317	4	Social Science Elective	3
ENG 209 or 211, 210 or 212	6	Science Elective	3
Science Elective	3	EDU 462. 463, 541	17
MUS 351, 366	3	MUS 320, 383, 480	6
MUS 371, 372, 378, 379	12	MUS 367, 368	4
MUS Applied & Ensemble	3	MUS Applied & Ensemble	1½
	31		34½

with Wind or String Emphasis

Junior	**Hours**	**Senior**	**Hours**
EDU 317	4	Social Science Elective	3
ENG 209 or 211, 210 or 212	6	Science Elective	3
Science Elective	3	EDU 462, 463, 541	17
MUS 351 (both sems.), 366	4	MUS 320, 354, 383 or 584	4
MUS 371, 372, 378, 379	12	MUS 367, 368, 480	7
MUS Applied & Ensemble	3	MUS Applied & Ensemble	1½
	32		35½

BACHELOR OF MUSIC

with majors in voice, piano, organ, wind or string instruments, and church music

Junior	Hours
ENG 209 or 211, 210 or 212	6
Social Science Elective	3
Science Elective	3
FRE 101, 102, or Electives	6
MUS 371, 372	6
MUS Applied or Ensemble	9
	33

Senior	Hours
Science Elective	3
MUS 366, 499, or Elective	4
MUS 480, Literature Elective	6
MUS 550, 551, Electives	7
MUS 581, or 582, or 383	2
MUS Applied or Ensemble	9
	31

GRADUATE STUDY IN MUSIC

Graduate study in music leads to the Master of Music Education degree. This graduate degree intends to prepare students for leadership roles in music education at all levels; to build a sound foundation for further graduate study leading to a doctorate; to further insight into the structure of music; to increase their knowledge of musical culture through intensive study of music literature; to provide them with a core of knowledge from the field of learning theory, philosophy of education, and curriculum development enabling them to use educational principles in guiding the musical growth of others.

The program of study includes required subjects in music education, teaching techniques, music history and literature, structure and organization of music, applied music, and related fields. Flexibility is provided for students to pursue particular interests in the field of music. The Standard Teaching Certificate will be recommended on completion of the program as outlined in a separate document.

Qualifications for admission and procedures for entrance may be found in the **Graduate Bulletin.** More detailed information may be obtained by writing the Department of Music or the Dean of the Graduate School.

APPLIED MUSIC

Instruction is given in individual lessons of one or two one-half hour periods each week. Applied classes meet two one-hour periods per week.

Recital Attendance. Attendance at university concerts and recitals is considered a part of each student's responsibility and is required. Unsatisfactory attendance, described in a separate document, will affect grades in applied music.

MUS 110. Class Piano. **One hour.** I, II.
Introductory course for vocal and instrumental students to meet piano requirements for secondary piano as follows: play simple piano accompaniments at sight; play easier choral 4-part folk songs and hymns; harmonize, at sight, simple tunes; exhibit reasonable competency in transposition. May be repeated for a maximum of two times.

MUS 111. Class Piano. **One hour.** I, II.
Prerequisite: MUS 110.
Continuation of MUS 110. May be repeated for a maximum of two times.

MUS 112. Piano. **One or two hours.** I, II.
One or two lessons per week.

MUS 113. Secondary Piano. **One or two hours.** I, II.
Prerequisite: MUS 111 or equivalent.
One or two lessons per week with emphasis upon accompaniments.

MUS 122. Voice. **One or two hours.** I, II.
One or two lessons per week.

MUS 130. String Instrument Class. **One hour.** I, II.
Practical instruction in methods of fingering, care of instruments, tone production and tuning. Group instruction to prepare for teaching strings in class and for training string section of a school orchestra. May be repeated for additional one hour credit.

MUS 132. String Instruments. **One or two hours.** I, II.
Applied instruction in violin, viola, violoncello, or string bass. One or two lessons per week.

MUS 142. Organ. **One or two hours.** I, II.
Prerequisite: Sufficient piano study to have reached a level of proficiency for playing Bach 2-part Inventions or the equivalent.
One or two lessons per week.

Mus 145. Brass Instruments. **One or two hours.** I, II.
Applied instruction in trumpet-cornet, French horn, baritone horn, trombone, or tuba. One or two lessons per week.

MUS 146. Woodwind Instruments. **One or two hours.** I, II.
Applied instruction in flute, oboe, clarinet, bassoon, or saxophone. One or two lessons per week.

MUS 147. Percussion. **One or two hours.** I, II.
Applied instruction in percussion instruments. One or two lessons per week.

MUS 251. Brass Instrument Class. **One hour.** I, II.
Practical instruction in methods of fingering, care of instruments, tone production and tuning. Group instruction to prepare for teaching brass instruments in band or orchestra. Examination of materials suitable for beginning instrumental programs. May be repeated for additional one hour credit.

MUS 312. Piano. **One, two or four hours.** I, II.
Prerequisite: Junior standing in music, or equivalent. One or two lessons per week.

MUS 320. Class Voice. **One hour.** I, II.
Basic vocal techniques with emphasis on developing the voice for solo and/or choral use.

MUS 322. Voice. **One, two or four hours.** I, II.
Prerequisite: Junior standing in music, or the equivalent. One or two lessons per week.

MUS 342. Organ. **One, two or four hours.** I, II.
Prerequisite: Junior standing in music and four semesters of MUS 142, or equivalent.
One or two lessons per week.

MUS 345. Brass Instruments. **One, two or four hours.** I, II.
Prerequisite: Junior standing in music, or equivalent.
Applied instruction in trumpet-cornet, French horn, baritone horn, trombone, or tuba. One or two lessons per week.

MUS 346. Woodwind Instruments. **One, two or four hours.** I, II.
Prerequisite: Junior standing in music, or equivalent.
Applied instruction in flute, oboe, clarinet, bassoon, or saxophone. One or two lessons per week.

MUS 347. Percussion. **One, two or four hours.** I, II.
Prerequisite: Junior standing in music, or equivalent.
Applied instruction in percussion instruments. One or two lessons per week.

MUS 351. Woodwind Instrument Class. **One hour. I, II.**
Practical instruction in methods of fingering, care of instruments, tone production and tuning. Group instruction to prepare for teaching woodwind instruments in band or orchestra. Examination of materials suitable for beginning instrumental programs. May be repeated for additional one hour credit.

MUS 354. Percussion Class. **One hour. I, II.**
Emphasis on snare drumming, rudiments, teaching techniques. Experience on all related percussion instruments: bass drum, tympani, and others. Some experience with mallet instruments: marimba, xylophone, bells, and others.

MUSIC ENSEMBLES

Performing ensembles are open to all students enrolled in the University and to qualified persons not enrolled. Interested persons and students are invited to participate and should contact the director of each activity to arrange for an audition.

MUS 125, 225, 325, 425. Choir. **One-half hour.** I, II.
Rehearsal and performance of choral literature of the highest standard. Sections include Concert Choir, Oratorio Chorus, Men's Glee Club and Women's Glee Club. Two or three rehearsals per week.

MUS 126, 226, 326, 426. Chamber Choir. **One-half hour. I, II.**
Rehearsal and performance of the finest music written for the small vocal ensemble. Concerts given both on and off campus. Three or more rehearsals per week.

MUS 127, 327. Opera Workshop. **One-half hour.** I, II.
Preparation and presentation of opera scenes and complete works. All phases of performance and technical procedures of staging, costumes, and management.

MUS 135, 235, 335, 435. Orchestra. **One-half hour. I, II.**
Rehearsal and performance of the finest orchestra literature from the Baroque to the Contemporary eras. Concerts given both on and off campus. Three or more rehearsals per week.

MUS 150, 250, 350, 450. Small Ensembles. **One-half hour.** I, II.
Rehearsal and preparation of literature for the following ensembles: (a) Chamber Orchestra; (b) Brass Choir; (c) Percussion Ensemble; (d) Stage Band.

MUS 155, 255, 355, 455. Band. **One-half hour. I, II.**
Rehearsal and performance of standard band literature. Band includes both symphonic and concert units. Concerts given both on and off campus. Three or more rehearsals per week.

MUS 156, 256, 356, 456. Marching Band. **One-half hour. I.**
Preparation and performance of marching band shows during the football season. Three or more rehearsals per week.

MUS 205. Chamber Music. **One-half hour.** I, II.
Study and performance of standard chamber music literature, quartets, quintets, etc. Open to pianists, vocalists, string and wind instrument players upon recommendation of instructor. Course may be repeated.

MUSIC (MUS)

MUS 181. Beginning Theory I. **Four hours. I, II.**
Teaches the perception and understanding of music through an integrated development of hearing, analytical, composition, singing, and keyboard skills. Achieved through the study of relatively simple, short structures of music from the Late Baroque to the Early Romantic periods.

MUS 182. Beginning Theory II. **Four hours. I, II.**
Prerequisite: MUS 181.
Continuation of MUS 181.

MUS 271. The Enjoyment of Music. **Three hours.** I, II.
Not open to music majors.

Designed to provide the general college student with a cultural background in music. Masterpieces of music, composers, and musical techniques are presented through listening materials and through concert attendance.

MUS 281. Intermediate Theory III. **Four hours.** I, II.
Prerequisite: MUS 182.

Continuation of MUS 182. Integrated skills further developed through the study of more difficult, longer structures of music from the Early Baroque to the Early Modern periods.

MUS 282. Intermediate Theory IV. **Four hours.** I, II.
Prerequisite: MUS 281.
Continuation of MUS 281.

MUS 360. Public School Music. **Three hours.** I, II.
Open only to Elementary Education Majors who have been admitted to the Teacher Education Program.

Materials and methods designed to provide the Grade Teacher with sufficient knowledge and skills to teach music in the classroom. Attention given to notation, rhythmic participation, rhythm and melody instruments, creative activities, and listening experiences.

MUS 366. Conducting. **Two hours.** I, II.
Prerequisite: Junior standing in music.
Basic techniques of instrumental and choral conducting.

MUS 367. Instrumental Methods and Materials. **Two hours.** I, II.
Prerequisite: Admission to student teaching.

Designed to acquaint the student with the role, objectives and methods of instrumental music in public schools.

MUS 368. Choral Methods and Materials. **Two hours.** I, II.
Prerequisite: Admission to student teaching.

Designed to acquaint the student with the role, objectives and methods of choral music in the public schools.

MUS 371. Music History I. **Three hours.** I.
Prerequisite: MUS 271, or permission of instructor.
Survey of music history from beginnings through the Baroque era.

MUS 372. Music History II. **Three hours.** II.
Prerequisite: MUS 271, or permission of instructor.
Survey of music history from Classic era to present.

MUS 378. Music Education: Principles & Practices in Grades One through Twelve I. **Three hours.** I.
Prerequisite: Junior standing in music.

Designed to acquaint student with a balanced curriculum in music education in public schools. Emphasis placed on understanding and planning a developmental sequence of musical experiences to assure the sound musical growth of children and youth from kindergarten through the twelfth grade.

MUS 379. Music Education: Principles & Practices in Grades One through Twelve II. **Three hours.** II.
Prerequisite: MUS 378.
Continuation of MUS 378.

MUS 383. Orchestration. **Two hours.** I, II.
Survey of ranges, timbre, and characteristics of orchestral instruments. Scoring for choirs and full orchestra.

MUS 415. Liturgics, **Three hours.** A.
Historical survey of the development of liturgies as background for the work of the church musician.

MUS 416. Hymnology. **Three hours.** A.
Development of the hymn; types of hymns and their uses; evaluation and effective use of materials in hymnals being used today.

MUS 417. Techniques and Materials for Church Choirs. **Three hours.** A.
Examination of sacred choral repertoire; study of conductor's skills and techniques; church choir administration.

MUS 418. Church Service Playing Techniques & Materials. **Three hours.** A.
Study and practical application of skills in accompanying anthems and oratorios, hymn playing, improvisation. Examination of repertoire for service playing.

MUS 480. Form and Analysis. **Three hours.** I, II.
Prerequisite: Junior standing in music.
Emphasis on materials of form; study of small part-forms with attention to motives, phrases, periods, cadences; compound forms; large instrumental forms; large and small vocal forms.

MUS 499. Recital. **Two hours.** II.

MUS 550. Teaching Techniques. **Two hours.** I, II.
Analysis of current teaching methods and materials with the intention of developing sound teaching procedures. Topics announced in Woodwinds, Brass, Percussion. Strings, Voice, Piano, and Organ. May be repeated for credit.

MUS 551. Performance Literature. **Two hours.** I, II.
Study and analysis of literature for various performing mediums. Performance practices and problems. Topics announced in Woodwinds, Brass, Percussion, Strings, Voice, Piano, and Organ. May be repeated for credit.

MUS 555. Symphonic Music Literature. **Two or three hours.** I.
Prerequisite: MUS 371 and 372.
Evolution of the Symphony from its beginning to the 20th century, with emphasis on score reading and listening.

MUS 556. Choral Music Literature. **Two or three hours.** II.
Prerequisite: MUS 371 and 372.
Survey of choral music literature from fifteenth century to present.

MUS 563. Teaching Piano in Classes. **Two hours.** A.
Prerequisite: Three years of piano study at the college level, or the equivalent.
Methods and materials used in teaching of piano classes.

MUS 564. Advanced Instrumental Conducting. **Two hours.** A.
Prerequisite: MUS 366, or equivalent.
Designed to increase skills in score reading, preparation, interpretation and conducting of major orchestral or band works.

MUS 565. Advanced Choral Conducting. **Two hours.** A.
Prerequisite: MUS 366, or equivalent.
Conducting techniques and their application in choral rehearsal and performance.

MUS 581. Counterpoint I. **Two hours.** A.
Survey of species. Writing in two, three and four parts with cantus firmus. Choral writing with the use of words. Analysis of Bach chorales and other polyphonic works. Writing of descants and canons.

MUS 582. Counterpoint II. **Two hours.** A.
Characteristics of good melodic lines. Interplay of metrical, melodic and harmonic rhythms. Techniques of imitation, and thematic treatment. Writing in two, three and four parts using instrumental combinations. Analysis of Bach Inventions and other works in polyphonic style.

MUS 583. Composition. **Two hours.** A.

MUS 584. Scoring for Band. **Two hours.** I.
Primary course in instrumentation and arranging for the band medium, including scoring for small ensembles, marching band, concert band, and other combinations of wind and percussion instruments.

MUS 585. Choral Arranging. **Two hours.** A.

Introductory course in arranging for typical junior and senior high school vocal ensembles.

MUS 586. Workshop in Instrumental Music. **Two or three hours.** A.

Topics in Band or Orchestral Procedures.

GRADUATE COURSES

MUS 612. Piano. **One or two hours.** I, II.

Prerequisite: MUS 312. Four years or equivalent, as demonstrated by the student's proficiency on the instrument.

MUS 622. Voice. **One or two hours.** I, II.

Prerequisite: MUS 322.

MUS 632. String Instruments. **One or two hours.** I, II.

Prerequisite: MUS 332.

Graduate applied instruction in violin, viola, violoncello, or string bass.

MUS 633. Special Problems in String Teaching. **One to three hours.** A.

Specialized study of problems in studio or class teaching. Exposure to special techniques for successful teaching of skills at all levels.

MUS 642. Organ. **One or two hour.** I, II.

Prerequisite: MUS 342.

MUS 645. Brass Instruments. **One or two hours.** I, II.

Prerequisite: MUS 345.

Graduate applied instruction in trumpet-cornet, French horn, baritone horn, trombone, or tuba.

MUS 646. Woodwind Instruments. **One or two hours.** I, II.

Prerequisite: MUS 346.

Graduate applied instruction in flute, oboe, clarinet, bassoon, or saxophone.

MUS 647. Percussion. **One or two hours.** I, II.

Prerequisite: MUS 347.

MUS 672. Seminar in Music History. **One to three hours.** A.

MUS 674. Supervision & Administration in Music Education. **Two hours.** A.

Functions, techniques and problems of supervision and administration in music education; development of effective music programs in city and county school systems; inservice education and workshop techniques; professional and community relationships.

MUS 675. Current Trends in Junior High School Music. **Two hours.** A.

Current thought and practices in junior high school music; characteristics of early adolescents and their implications for musical growth; consideration of objectives, techniques and literature for general music classes.

MUS 676. Current Trends in Elementary Music. **Two hours.** A.

Current thought and practices in elementary music; knowledge of the learner and the learning process, structure of music, and methods of developing skills related to a practical program of experiences designed to promote children's musical growth.

MUS 677. Practicum in Senior High Music. **Two hours.** A.

Consideration of problems encountered at secondary level in the teaching of music, with emphasis on instrumental, choral, and music literature procedures. Discussions, lectures, and readings coupled with observation and participation of students in the Stephen Foster Music Camp.

MUS 678. Principles of Music Education. **Three hours.** I.

Presentation and discussion of basic educational principles and their implications for music education, with reference to all types of school situations.

MUS 679. Foundations of Music Education. **Three hours.** II.

Historical, philosophical and psychological foundations of music education and their relationship to curriculum development.

MUS 680. Field work in Music Education. Two or three hours. A.
Professional activities in the field under guidance and supervision of members of music department staff. Emphasis on curriculum improvement through student work on projects and problems faced in actual teaching situation. Selected readings pertinent to individual problems and needs.

MUS 683. Seminar in Choral Procedures. Two hours. A.
Organization of various kinds of choral groups; analysis of a large selected list of various types of choral literature.

MUS 684. Organization & Administration of Instrumental Music. Two hours. A.
History and roles of instrumental music; methods of program initiation, student recruitment and testing; organizational and administrative aspects of various instrumental groups; administrative procedures for property and library materials.

MUS 687. Analytical Techniques. Two hours. A.
Insights into musical scores representative of all periods, styles and idioms through the development of analytical skills.

MUS 688. Pedagogy of Theory. Two hours. A.
Comparative study of theory systems with emphasis on presentation and illustrative exercises dealing with related theoretical problems.

MUS 698. Research & Writing in Music. Two hours. A.
Overview of important research in music; sources and procedures for investigating problems in the field; development of bibliographies.

MUS 699. Thesis. Three hours. I, II.

PHILOSOPHY (PHI)

Chairman (to be appointed), Marlette, Schockling

A student may major in Philosophy (non-teaching) by taking a minimum of 24 semester hours. The student must take PHI 210, 211, 300, and 301; six hours from PHI 451, 452, 458, and 459, and six hours from PHI 330, 440, 510, and 520. Philosophy majors must take at least six hours of a foreign language at the intermediate level or above. It is recommended that a Philosophy major elect courses from a wide range of disciplines with as much concentration as possible on the theoretical foundations of these areas.

A student majoring in Philosophy wishing to minor in an area outside the College of Arts and Sciences must secure the permission of the Philosophy Department and the Dean of the College of Arts and Sciences.

A student may minor in Philosophy (non-teaching) by taking a minimum of 18 semester hours. The student must take PHI 210, 211, 300, and 301. At least six hours must be taken in upper division courses.

The curriculum for a major in Philosophy (non-teaching): The first two years may be found in the Central University College section.

Junior	Hours	Senior	Hours
PHI 210 or 211	3	Two courses from PHI 330, 440, 510, and 520	6
Two courses from PHI 451, 452, 458, and 459	6	Electives	24
Electives	21		
	30		30

PHILOSOPHY (PHI)

PHI 210. Introductory Moral Philosophy. **Three hours.** I, II.

Examines place of moral philosophy in the broader area of value theory and studies critically several representative ethical theories. Particular attention to Plato, Aristotle, Butler, Hume, and Kant.

PHI 211. (CL MAT 211.) (Formerly PHI 200.) Introductory Logic. **Three hours.** I, II.

Principles of modern logic through the propositional calculus and elementary quantification. Attention paid to historical development and philosophical foundations of logic.

PHI 300. Survey of Philosophy I. **Three hours.** I.

Approaches history of philosophical thinking through a critical examination of one of its central problems (e.g., philosophical psychology—the "mind-body" problem). Particular attention to Plato, Aristotle, Thomas, and Descartes.

PHI 301. Survey of Philosophy II. **Three hours.** II

Continuation of the examination begun in PHI 300. Concentrates on Hume, Kant, and Ryle.

PHI 330. (Formerly PHI 400.) Philosophy of Religion. **Three hours.** I.

Philosophical foundations of religious experience. Problems of belief and knowledge, existence and nature of God and character and meaning of religious commitment and language in which it is described.

PHI 440. Philosophy in Literature. **Three hours.** I.

Philosophical ideas expressed in great works of imaginative literature and some possible criteria for evaluating these ideas. Aeschylus, Milton, Dostoevsky, Mann, and Eliot. (Philosophy 210 recommended preparation.)

PHI 451. Ancient Philosophy. **Three hours.** I.

Prerequisite: PHI 300 and 301 or equivalent.

Concentrated examination of the metaphysical and epistemological doctrines of Plato and Aristotle. Some attention will be given to the prior and subsequent development of these doctrines in pre-Socratic and Hellenistic philosophy.

PHI 452. Medieval Philosophy. **Three hours.** II.

Prerequisite: PHI 210 or 330 or permission.

The patristic thinkers, primarily Augustine, and Aquinas, Scotus, and Ockham. Concentration on major problems: relation of philosophy to theology and problem of universals.

PHI 458. Contemporary Philosophy I. British and American. **Three hours.** I.

Prerequisite: PHI 210 or 3[illegible] or permission.

Careful and detailed analysis of some of the main problems which have exercised English-speaking philosophers in the twentieth century, e.g., Peirce, James, Dewey, Russell, Moore, Austin, Wittgenstein and Ryle.

PHI 459. Contemporary Philosophy II. **Three hours.** II.

Prerequisite: PHI 210 or 301 or permission.

Origins of the phenomenological movement in the nineteenth century its classical statement in the writings of Edmund Husserl, and its subsequent development in the existentialism of Sartre, Heidegger, and Merleau-Ponty.

PHI 490. Independent Work in Philosophy. **Three hours.** I, II.

Prerequisite: Consent of Instructor.

Individual research and reading on a specific philosophical problem chosen by the student and instructor. Regular consultation and final paper required.

PHI 498. The Ideological Foundations of Western Civilization. **Three hours.** I, II. **(CL HIS 498)**

PHI 499. The Ideological Foundations of Western Civilization. **Three hours.** I, II. **(CL HIS 499)**

PHI 510. Aesthetics. **Three hours.** II.

Examination of the major philosophical theories of art and beauty and of the place of aesthetic language in the general area of value judgments. Plato, Aristotle, Hume, Kant, Hegel, and several lesser figures will be critically considered. (PHI 210 recommended preparation.)

PHI 520. Political Philosophy. **Three hours.** I.

An inquiry into the nature of law, its justification and its place in and relation to alternative political systems. The use and meaning of key terms in the vocabulary of politics, e.g., freedom, equality, and justice. Major emphasis on Hobbes, Locke, Hume, Rousseau and Kant. (PHI 210 recommended preparation.)

PHYSICS (PHY)

T. M. George, Chairman; Black, Choy, Faughn, Laird, DeLaigle, Kuhn, Sexton.

Requirements for a major (non-teaching) are PHY 201, 202 and a minimum of 24 hours in Physics numbered 300 and above. In addition, CHE 111, 112 are required and Mathematics courses necessary to meet prerequisites for Physics courses. At the discretion of the Chairman, PHY 131 may be substituted for PHY 201.

Requirements for a major (teaching) are PHY 201, 202 and a minimum of 18 hours in Physics numbered 300 and above. In addition, CHE 111, 112 are required and Mathematics courses necessary to meet prerequisites for Physics courses. At the discretion of the Chairman, PHY 131 may be substituted for PHY 201.

Requirements for a second major (teaching) are PHY 201, 202 and 14 additional hours of Physics numbered 300 and above as directed by the Chairman. Also, CHE 111, 112 are required. At the discretion of the Chairman, PHY 131 may be substituted for PHY 201.

Requirements for a minor (teaching or non-teaching) are PHY 201, 202 and a minimum of eight additional hours of Physics numbered 300 or above. Courses should be selected in consultation with the Chairman. At the discretion of the Chairman, PHY 131 may be substituted for PHY 201. In addition, nine hours of Chemistry are recommended.

The Physics Department, in cooperation with the Graduate School and the College of Education, also offers an emphasis in Physics applying toward the M. A. degree in Education.

The regulations for the M. A. degree in Education program may be found in the College of Education section of the **Graduate Bulletin.** Students obtaining the M. A. degree in Education with the emphasis in Physics must select courses in conference with their advisor.

The preparatory curriculum for a major in Physics (teaching and non-teaching) for the first two years may be found in Central University College section.

Courses for the last two years (teaching) are as follows:

Junior	Hours
Biology Elective	3
CHE 111, 112	9
EDU 317	4
ENG 209 or 211, 210 or 212	6
MAT 453	3
PHY 300	3
PHY 306	2
PHY Elective	3
	33

Senior	Hours
EDU 462	4
EDU 463	10
Humanities Elective	3
PHY Elective	6
SCI 410	3
Social Science Elective	3
Elective	3
	32

Courses for the last two years (non-teaching) are as follows:

Junior	Hours
ENG 209 or 211, 210 or 212	6
Foreign Language	6
MAT 453	3
PHY 300	3
PHY 306	2
PHY Elective	6
Social Science Electives	6
	32

Senior	Hours
Biology Elective	3
Foreign Language	6
PHY Electives	19
Electives	14
	32

PHYSICS (PHY)

PHY 107. Slide Rule Theory and Practice. **One hour.** I, II.

Designed to aid students in making mathematical computations easily and rapidly. Slide rule must be approved by instructor.

PHY 131. Elementary Physics. **Five hours.** I, II.

Prerequisite: One unit each of high school algebra and plane geometry.

Fundamental ideas of mechanics, heat and sound. Four lecture hours; three laboratory hours.

PHY 132. Elementary Physics. **Five hours.** I, II.

Prerequisite: PHY 131.

Fundamental ideas of electricity, magnetism and optics. Four lecture hours; three laboratory hours.

PHY 201. Mechanics, Heat and Sound. **Five hours.** I, II.

Corequisite: MAT 111

Composition and resolution of forces, laws of equilibrium, Newton's laws of motion, work and energy, momentum, simple harmonic motion, hydrodynamics, heat phenomena, sound and wave motion. Four lecture hours; three laboratory hours.

PHY 202. Electricity, Magnetism and Optics. **Five hours.** I, II.

Prerequisite: PHY 201.

Electrostatics, nature of electricity, magnetism, Ohm's law, measurement of electrical quantities, sources of electrical energy, Lenz's law, inductance and capacitance, alternating currents, electromagnetic waves, optics. Four lecture hours; three laboratory hours.

PHY 220. Statics. **Three hours.** A.

Prerequisite: PHY 201.

Corequisite: MAT 112.

Moments and couples, resultants of force systems, center of gravity, free body diagrams, virtual work, structural analysis, moments of inertia. Three lecture hours per week. (Does not count toward physics major.)

PHY 230. (Formerly MAT 321 or MAT 30.) General Astronomy. Three hours. II.

Development of astronomy as a science; development of the solar system; astronomical instruments; better known facts of astronomy. Three lecture hours per week. (Not available for credit toward a physics major.)

PHY 300. Modern Physics. **Three hours. I.**
Prerequisite: PHY 202 or consent of instructor.
Corequisite: MAT 112.

Introduction to some important theories and experiments of modern physics. Topics covered include: theory of special relativity, quantum effects, particle aspects of electromagnetic radiation, wave aspects of material particles, Rutherford scattering and the nuclear atom; structure of the hydrogen atom, many-electron atoms and electron spin, and x-ray spectra. Three lecture hours per week.

PHY 306. Advanced General Laboratory. **Two hours.** I, II.
Corequisite: PHY 300.

Largely for physics majors and minors. Consists of performance and reporting of a carefully selected group of experiments considerably more advanced than in the elementary laboratories. Experiments will spread across the various branches of physics and cover ideas and techniques considered essential to the training of a well-rounded physicist. Four laboratory hours per week.

PHY 307. Electronics. **Four hours.** A.
Prerequisite: PHY 202 or PHY 132.

Theory of thermionic tubes and solid state devices, rectifiers, amplifier circuit principles, modern pulse circuitry, the oscilloscope. Three lecture hours; two laboratory hours.

PHY 406. Advanced General Laboratory II. **Two hours.** A.
Prerequisite: PHY 306.

A continuation of PHY 306 consisting of a selection of experiments in physics tailored to the specific needs of the student. The experiments will include experiments in Nuclear Magnetic Resonance, Hall Effect and Zeeman Effect among others. Four laboratory hours per week.

PHY 502. (Formerly PHY 302.) Physical Optics. **Three hours.** A.
Prerequisite: PHY 202 or consent of instructor.
Corequisite: MAT 112.

Wave motion, reflection and refraction, further study of lenses, the telescope, dispersion, facts concerning the spectrum, interference, diffraction, plane polarized light, the electromagnetic theory of light, the quantum theory, origin of spectra. Three lecture hours per week.

PHY 503. (Formerly PHY 303.) Thermodynamics. **Three hours.** A.
Prerequisite: PHY 202.
Corequisite: MAT 213.

Study of temperature, thermodynamic systems, ideal gases, First and Second law of Thermodynamics, Carnot cycle, Kelvin temperature scale, entropy.

PHY 506. Physics for High School Teachers. **Three hours.** A.
Prerequisite: One year of college physics.

Topics from general physics to prepare teachers to teach high school physics with ease and confidence. Topics from advanced and modern physics to impart extra knowledge and a greater understanding. Two hours lecture; three hours laboratory and discussion.

PHY 507. Physics for High School Teachers. **Three hours.** A.
Prerequisite: PHY 506.

Continuation of PHY 506. Two hours lecture; three hours laboratory and discussion.

PHY 508. Topics in Physics for Teachers. **Four hours.** A.

Topics from general physics selected to aid the high school teacher to teach with greater confidence. Three lecture hours; three hours laboratory and discussion.

PHY 510. (Formerly PHY 310.) Special Problems in Physics. **One to three hours.** A.
Prerequisite: PHY 202 and PHY 306.

Working out of special laboratory experiments, development of new equipment, or solution of special mathematical problems related to physics.

PHY 511. (Formerly PHY 311.) Special Problems in Physics. **One to three hours.** A.
Prerequisite: PHY 202 and PHY 306.
Continuation of PHY 510.

PHY 515. (Formerly PHY 315.) Radioactivity and Nuclear Physics. **Three hours.** A.
Prerequisite: PHY 300.
Natural radioactivity, radiation detectors, induced radioactivity, Alpha, Beta, and Gamma rays, neutrons, other particles, cosmic radiation, nuclear fission, applications of radioactivity. Three lecture hours per week.

PHY 516. (Formerly PHY 304.) Electricity and Magnetism I. **Three hours.** A.
Prerequisite: PHY 202.
Corequisite: MAT 453.
Introduction by means of calculus and vectors to formulation and use of principles of classical electricity and magnetism. Covers electric fields and potentials, capacitance, direct and transient currents, alternating currents. Three lecture hours per week. Offered on alternate years. Offered fall, 1968-69.

PHY 517. Electricity and Magnetism II. **Three hours.** A.
Prerequisite: PHY 516.
Continuation of PHY 516. Covers dielectrics, resistance, thermo-electricity, electromagnetic induction, magnetic properties of matter, Maxwell's equations. Three lecture hours per week. Offered on alternate years. Offered spring, 1968-69.

PHY 520. (Formerly PHY 415.) Advanced Nuclear Laboratory. **Two hours.** A.
Corequisite: PHY 515.
Performance of approximately twelve experiments in nuclear physics, radiation instruments and methods, range and energy of particles, absorption, half-life, neutron moderators and neutron flux measurements, coincidence techniques. Four laboratory hours per week.

PHY 558. (Formerly PHY 455 and MAT 455.) Classical Mechanics I. **Three hours.** A.
Prerequisite: PHY 202.
Corequisite: MAT 453.
Introduction by means of calculus to formulation and use of principles of classical mechanics. Covers force and motion of particles, work, Newton's Law of Gravitation, free and forced harmonic oscillations, translational and rotational motion of rigid bodies, wave motion. Three lecture hours per week. Offered on alternate years. Offered fall, 1967-68.

PHY 559. Classical Mechanics II. **Three hours.** A.
Prerequisite: PHY 558.
Continuation of PHY 558. Covers central forces, generalized coordinates, LaGrange's equations, Hamilton's equations, vibrating systems and normal coordinates. Three lecture hours per week. Offered on alternate years. Offered spring, 1967-68.

PHY 570. Quantum Mechanics. **Three hours.** A.
Prerequisite: PHY 558.
Basic principles of wave mechanics, solutions of Schrodinger wave equation for simple systems. Interpretation of solutions and application to atomic and molecular problems. Three lecture hours per week.

POLITICAL SCIENCE (POL)

D. B. Pettengill, Chairman; Buckner, Gunn, Gurganus, Kim, Martinez, Moomaw, Ogden.

A student may major in Political Science (teaching or non-teaching) by taking a minimum of 30 semester hours. The student must take POL

100, 101, and six hours from 103, 201, or 202. At least fifteen hours must be taken in upper division courses and three of these hours must be in political theory. A Political Science major should take twelve hours in a foreign language if he begins the language in college, or six hours if he continues the language at the intermediate level.

It is recommended that a Political Science major take a minor in another social science or in English. Students who plan to pursue work toward an advanced degree are advised to acquire competence in statistics.

A student may minor in Political Science by taking a minimum of 18 semester hours. He must take POL 100, and 101. Nine hours must be in upper division courses.

The Department of Political Science, in cooperation with the Graduate School and the College of Education, offers an emphasis in Political Science applying toward the M. A. degree in Education.

The regulations for the M. A. degree in Education program may be found in the College of Education Section of the **Graduate Bulletin.**

Curricula for a major in Political Science (teaching and non-teaching). The first two years may be found in the Central University College section.

Courses for the last two years (teaching) are as follows:

Junior	**Hours**	**Senior**	**Hours**
EDU 317	4	Political Theory	3
POL electives	12	EDU 462, 463	14
General Education		HIS 466	3
MAT or SCI	6	POL electives	6
Electives (minor)	9	Electives (minor)	6
Electives	3		
	34		32

Courses for the last two years (non-teaching) are as follows:

Junior	**Hours**	**Senior**	**Hours**
POL electives	9	POL electives	6
Electives (minor)	9	Political Theory	3
Electives	14	Electives (minor)	9
		Electives	14
	32		32

POLITICAL SCIENCE (POL)

POL 100. Introduction to Political Science. **Three hours.** I, II.

Survey of the political characteristics of modern democracies and dictatorships and their relation to governmental institutions and practics, with emphasis on the government of the United States.

POL 101. Introduction to American Government. **Three hours.** I, II.

Principles, functions, and basic political institutions of the American system of government at the national level.

POL 103. American State and Local Government. **Three hours.** I, II.

Prerequisite: POL 100 or 101.

Study of the institutions and processes of government of the fifty states and of cities and counties.

POL 201. Comparative Government. **Three hours.** I, II.
Prerequisite: POL 100 or 101.
Survey of constitutional and political characteristics of Great Britain, France, Germany, and the Soviet Union to introduce the student to the diversity of constitutional forms of political forces.

POL 202. International Politics. **Three hours.** I, II.
Prerequisite: POL 100 or 101.
Introductory survey of basic principles and forces of international politics. Emphasis placed on modern state system, nationalism, national power, balance of power, international economics, diplomacy, and world organization.

POL 300. Survey of American Government. **Three hours.** A.
May not be taken for credit by students who have credit for POL 101. Designed as an elective at the junior and senior levels for non-majors or minors in political science who want a basic survey of American government.

POL 301. Research and Writing in Political Science. **Three hours.** I. II.
Prerequisite: Nine hours of Political Science or permission of instructor.
Practical application of techniques and methods used in collection, analysis and written presentation of political data.

POL 305. Local Government and Administration. **Three hours.** A.
Survey of history, legal basis, organization and the political and administrative functions and problems of counties, towns, special districts, municipalities and metropolitan areas.

POL 310. American Politics: Parties, Public Opinion and Pressure Groups. **Three hours.** I.
Prerequisite: POL 101.
Informal political institutions of American government: functions, organization, financing of political parties, public opinion and pressure groups. Their relationship to democracy.

POL 311. American Politics: President and Congress. **Three hours.** II.
Prerequisite: POL 101.
The legislative process and executive-legislative relations.

POL 320. Introduction to Public Administration. **Three hours.** I.
Prerequisite: POL 101 or 103.
Traditional and behavioral theories of organization, authority, decision-making, intra-organization communications and application of principles to the American bureaucracy by case studies. Designed for those interested in service in government, school administration, or large industry and for students of general political science.

POL 325. Government and Politics in the U.S.S.R. **Three hours.** I.
Prerequisite: POL 100 or permission of instructor.
A survey of domestic politics in the U.S.S.R. including the background and development of the Soviet system, the party-state structure, the policy-making process and power struggle, and relation of the system to Soviet society.

POL 326. Soviet Foreign Policy. **Three hours.** II.
Prerequisite: POL 100 or permission of instructor.
Theoretical and practical considerations in the development, methods, and goals of Soviet foreign policy; Soviet relations with the Communist nations, the Western world, and the emerging nations.

POL 330. Government and Business. **Three hours.** A.
Prerequisite: An introductory course in Political Science and three additional hours of Political Science, Economics, or American History.
Study of public control for consumer welfare; maintaining and moderating competition; substituting regulation and public ownership for competition. Emphasis on anti-trust laws and administrative agencies.

POL 362. Government of Kentucky. **Three hours.** I, II.

Political setting, popular control of government, constitution, legislature, governor, courts, local government, finance, functions of government and relation to national government.

POL 375. International Organization. **Three hours.** A.

Prerequisite: POL 202 or consent of instructor.

Review of historical movements toward world order building, including evaluation of the League of Nations and study of United Nations. Modern movements toward regionalism and world federation.

POL 421. American Constitutional Law I. **Three hours.** I.

Prerequisite: Nine hours of Political Science.

Study of major provisions of the American Constitution and the way in which they have been interpreted by the Supreme Court. Supreme Court opinions read and analyzed.

POL 422. American Constitutional Law II. **Three hours.** II.

Prerequisite: Nine hours of Political Science.

Study of civil and political rights in the United States. Supreme Court opinions read and analyzed.

POL 440. Political Behavior. **Three hours.** A.

Prerequisite: Nine hours of Political Science, including POL 310 or 311.

Introduction to research in political participation and other forms of behavior. Emphasis will be on the empirical method, especially as related to research design and analysis of data.

POL 445. The Politics of Totalitarianism. **Three hours.** A.

Prerequisite: Six hours of Political Science or permission of instructor.

A study of the theory, background, and practice of totalitarian systems and consideration of the usefulness of the totalitarian model in the study of comparative politics.

POL 450. The Political Systems of Continental Europe. **Three hours.** A.

Prerequisite: POL 201 or consent of instructor.

Survey of politics and governments of France, Germany, and Italy. Examination of political systems of nations that share the Roman or Germanic political heritage, in contrast to polities that have evolved from the Anglo-Saxon heritage or the eastern or Slavic environment. Students encouraged to engage in research on other continental politics.

POL 490. Independent Work in Political Science. **Three hours.** A.

Prerequisite: Consent of Department.

Individual research and/or reading on a problem or area within the field of political science chosen by the student after consultation with instructor. Regular reports and final research paper required.

POL 501. British Government and the Commonwealth. **Three Hours.** I.

Prerequisite: POL 201 and either six additional hours of political science or six hours of English history, or graduate standing.

Study of constitutional system and political institutions of Great Britain. Attention to historical, geographical, social, and economic factors which influence the political system. Nature and development of the Commonwealth and significance of the Commonwealth for Great Britain examined.

POL 510. American Foreign Policy. **Three hours.** II.

Prerequisite: Nine hours of Political Science or graduate standing.

Study of the processes and content of United States foreign policy.

POL 515. Workshop in International Affairs. **Three hours.** A.

Explores major problems in international affairs. Covers various areas of the world with reference to significant background factors and international problems of the people. Designed for secondary teachers in the social science field although open to other qualified students. Offered only during summer session.

POL 520. Workshop in Local Government and Politics. **Three hours.** A.

Focuses attention on major problem areas of Kentucky local government. A different area of concern will be explored each time the course is offered.

POL 530. Municipal Government and Administration. **Three hours.** II.

Prerequisite: Nine hours of Political Science.

Study of the powers, organization and current problems of municipalities and urban areas.

POL 540. International Law. **Three hours.** A.

Prerequisite: POL 202 or permission of instructor.

A study of the nature and function of international law with regard to judicial solution of disputes among nations. Examination of the processes of growth and change in international law through cases in national and international courts, as well as strength and limitation of such laws.

POL 545. Theory of Public Administration. **Three hours.** A.

Prerequisite: POL 320 or permission of instructor.

This course identifies executive systems as expressed through individuals, small groups, and formal organizations; analyzes the functions, conditions and problems of executive value systems, activity and sentiment patterns. Action relationships in administration, administrative processes, and changes in executive sytems from both historical and operational points of view are considered.

POL 555. History of Political Theory I. **Three hours.** I.

Prerequisite: Six hours in Political Science or graduate standing.

Survey of political thought from the time of Plato to the Reformation.

POL 556. History of Political Theory II. **Three hours.** II.

Prerequisite: Six hours in Political Science or graduate standing.

Survey of political thought from the Sixteenth Century to the present.

POL 557. American Political Thought. **Three hours.** I.

Prerequisite: Six hours in Political Science or graduate standing.

Intensive explorations of major currents in political thought which justified and guided the growth of the American republic. Largely organized on chronological basis, but delves into main schools of thought that both reflected and energized the development of the American political process.

POL 560. The Judicial Process. **Three hours.** A.

Prerequisite: Graduate standing or permission of instructor.

A study of the development of legal and judicial systems from ancient times to the present day with particular emphasis on the Anglo-American experience.

POL 565. Administrative Law. **Three hours.** A.

Prerequisite: Graduate standing or permission of instructor.

Nature of the powers vested in administrative agencies; the problems of administrative procedure; and the methods and extent of judicial control over administrative action.

GRADUATE COURSES

POL 625. Seminar in Civil Liberties. **Three hours.** A.

Prerequisite: Permission of instructor.

The nature and scope of political and civil rights and liberties in the United States. Selected topics will be studied in depth.

POL 630. Seminar in the Political Process. **Three hours.** A.

Prerequisite: Permission of instructor.

Examination of theories of community power structure; analysis of political activity by pressure groups; legislative process; survey and evaluation of sources for political information. Conducted through discussion of problems arising in relationship between educational institutions and political affairs.

POL 635. Seminar on Intergovernmental Relations. **Three hours.** A.
Prerequisite: Permission of instructor.
Study of adoption, maintenance, and operation of the American federal system. Attention focused upon different interlevel and inter-jurisdiction relationships within the system to analyze its development and ability to deal with current problems.

POL 640. Problems of Metropolitan Areas. **Three hours.** A.
Prerequisite: Permission of instructor.
Study of issues—economic, social and especially political—confronting our rapidly expanding metropolitan areas and regions. Proposed plans for possible amelioration of conditions examined.

POL 655. Seminar in International Relations. **Three hours.** A
Prerequisite: Permission of instructor.
An inquiry into contemporary problems of international affairs; the nation-state system and concepts of national interest in modern politics; the forms and distribution of power by which states seek to implement national interests; the making of foreign policy and methods of adjusting international conflict.

POL 660. The Politics of Developing Nations. **Three hours.** A.
Prerequisite: Permission of instructor.
Comparative analysis of political institutions, processes, and behavior in selected countries of South Asia, Africa, and the Near East. Special attention is given to the role of political ideologies and social forces in political modernization, and the involvement of these nations in world politics.

SCIENCE (SCI)

SCI 310. History of Science. **Three hours.** II.
The development of scientific concepts through the ages; contribution of science to civilization; philosophy of science; biographical sketches. Students may not receive credit for both SCI 310 and BIO 305. Three lecture hours.

SCI 410. The Teaching of Physical Science in the High School. **Three hours.** I, II.
Prerequisite: A major or minor in the physical sciences.
A review of fundamentals of chemistry and physics, with emphasis on applications to high school teaching of chemistry, physics, and physical science. Emphasis will be placed upon techniques that are useful in teaching principles of science in the classroom and in the laboratory. Attention will be given to new concepts in science teaching, especially as they relate to new curriculum developments in secondary science education.

SCI 475. (Formerly SCI 351.) Science for Elementary Teachers. **Three hours.** I, II.
Prerequisite: General Studies 161, 162, 170, 176, or equivalent.
Concepts of science, experiments and demonstrations useful to the teaching of science from kindergarten through grade 6. Five discussion-laboratory hours.

College of Business

Accounting . 236

Business Administration . 239

Business Education and Office Administration . 248

Economics . 254

COLLEGE OF BUSINESS

Joseph H. Young, Dean

George G. Miller, Associate Dean

The College of Business, in cooperation with the Graduate School, offers the degree of Master of Business Administration and, in cooperation with the Central University College, offers four-year programs leading to the degree of Bachelor of Business Administration.

The Department of Business Education and Office Administration, in cooperation with the College of Education, offers the Master of Arts in Education degree for teachers of business, a four-year program for secondary business teachers leading to the Bachelor of Science degree, a one-year secretarial certificate program, and a two-year executive secretarial program leading to the Associate of Arts degree. The Department of Business Administration offers a two-year program in data processing leading to the Associate of Arts degree.

The programs in the College of Business are designed to provide professsional education for careers in business and to develop an intellectual understanding of the role of the citizen in a rapidly changing technological society. Through the liberal arts requirements for the degree, the College attempts to provide for the student a well-rounded education.

The College offers courses in accounting, business education, business law, economics, data processing, finance, management and marketing. The specific programs are outlined in the departmental sections of the catalogue. Each student upon transferring into the College of Business is assigned a faculty advisor especially trained in the requirements of the program he intends to pursue. Students changing programs should consult with the Dean for reassignment to an appropriate faculty advisor.

Students in the College of Business are eligible for financial aid and grants, as are all other students in the institution, and should contact the Financial Aids Office to inquire about them.

Pre-legal Study

Many students planning to attend law school find undergraduate programs in business particularly good background for their legal study. Special advisors are available in the College of Business for pre-legal students.

Admission to the College of Business

Freshman enter the Central University College and remain there through their sophomore year. As they approach the completion of their sophomore year, they should apply for admission to the College of Business. The following are the requirements for admission:

1. Completion of a minimum of 64 credit hours with a grade point average of 1.8 or higher.
2. Completion of the following:
    GSE 101 and 102
    ENG 209 or 211 and 210 or 212
    GSP 180, 181 and 281
    GSS 142, 248, 246 and 247
    ECO 230 and 231
    ACC 124, 125, 126
    ART 200
    Science or Math, 9 hours (see page 49 for options)
    Military Science (for men), 8 hours

Requirements for Graduation

In order to be graduated with a Bachelor of Business Administration degree, students must apply to the Office of the Dean of Admission. The application for graduation should be made at the beginning of the next to the last semester in residence before graduation. Last day upon which applications may be accepted by the Registrar is 30 days before the beginning of the last semester in residence before graduation. This application is forwarded to the Dean of the College who will check the student's record and notify him of any deficiency. The requirements for the degree are as follows:

1. A minimum of 128 hours and a quality point average of 2.0. Candidates for degrees must earn 30 of the last 36 hours in residence at Eastern Kentucky University. Hours earned by correspondence study are accepted upon written approval of the Dean. However, not more than 25 per cent of the total hours offered for the degree may be in correspondence and/or extension work. A degree may not be awarded if less than 32 hours have been earned in residence at Eastern Kentucky University. Of the 128 hours for the degree, 43 must be earned in upper division courses (courses at the 300, 400, and 500 level).

2. Not more than 50 per cent of the work toward the degree may be taken in the College of Business.

3. Completion of the business core.

4. Completion of sufficient course work in a major.

5. The two main objectives of the BBA degree are (1) professional development for business careers, and (2) broad liberal arts and science education. Electives which do not contribute to either of these objectives will not count toward the degree.

Major Requirements

Each student in the College of Business must choose a major field. Students should make this choice at the time they are admitted to the College of Business and the student must be approved by the department offering the major. The student's schedule for each semester must be approved by his faculty advisor. Any student not making satisfactory progress in his major may be required to change his major or to transfer from the College of Business. A grade of "C" or higher is required in each course for credit toward the major. In addition, a 2.0 quality point average must be maintained in all work taken in the College of Business. A student may not take more than 64 hours in the College of Business without permission of the dean. For majors which are available and their requirements, see the various departments in sections of this bulletin devoted to course offerings. No minor or second major is recognized in the College of Business since students take the business core.

Required Subjects*

1. GSE 101 and 102
   GSS 246 and 247
   GSP 180, 181, and 281
   ENG 209 and 210 or 211 and 212
   Humanities, other than English, 6 hours
   Social Science, 6 hours
   Science or Math, 12 hours
   Military Science (for men), 8 hours

Accounting majors are required to include Mathematics 107 and General Business majors are required to include Mathematics 109 as a portion of the science and mathematics requirement.

2. The Business Core:
   ACC 124, 125, and 126
   OAD 301
   ECO 230, 231, 324, and 391
   FIN 300
   GBU 300
   MGT 200
   MKT 300

*All of the options approved that meet these requirements are listed in the General Education section of this catalogue.

Teacher Certification

The Department of Business Education and Office Administration, in cooperation with the College of Education, provides programs leading to certificates qualifying graduates to teach business subjects in the high school. Students in these programs must have a quality point average of 2.25 on their entire record and also in their required area, or major, to be eligible for graduation and certification. Students following these programs may have portions of the business core requirements waived. Students interested in business teacher certification should consult the Chairman of the Department of Business Education and Office Administration.

Award

Each spring the outstanding graduating senior in the College of Business is selected to receive the Anna D. Gill Award. This prize consists of the income from a fund established in the honor of Miss Gill, a former member of the business faculty.

MASTER OF BUSINESS ADMINISTRATION DEGREE PROGRAM

Objectives

The College of Business, through the Graduate School, offers a program of graduate study leading to the Master of Business Administration degree. The program is broad in nature and is designed to develop general competence in the functions of management. It provides for study in breadth in selected functional areas and for concentrated study in a specialized field of the student's choice.

The Master of Business Administration degree program is designed to provide opportunities for developing: skill in scientific analysis; the ability to integrate concepts and research findings of business and the behavioral sciences; to draw logically sound conclusions; to think creatively; to communicate effectively; and to appreciate the role and responsibilities of business enterprise in our broad social framework.

Admission to Study

An applicant for admission to study in the College of Business must (1) hold a bachelor's degree from an accredited institution with work comparable to a Bachelor of Business Administration degree, (2) have a 3.0 grade point average (on a four-point system), however, under certain conditions students whose grade point average is 2.75 or higher may be accepted conditionally for admission, and (3) make satisfactory scores on the Graduate Record Examination Aptitude Test for Graduate Study in Business.

Admission to Candidacy

Admission to candidacy is permitted if (1) all admission to study conditions and course deficiencies have been removed, (2) the student has achieved at least a 3.0 grade-point average for not less than nine nor more than eighteen hours of graduate level work in the College of Business, and (3) recommended by the student's Graduate Committee.

Requirements

At least thirty semester hours of work in the functional fields of accounting, economics, finance, management, and marketing as follows: (1) twelve semester hours in a concentration of study; (2) students taking a concentration of study in accounting must select three semester hours of work from each of three of the functional fields of economics, finance, management, or marketing; students taking a concentration of study in economics must select three semester hours of work from each of three of the functional fields of accounting, finance, management, or marketing; and students taking a concentration of study in one of the functional fields in business administration (finance, management, marketing) must select three semester hours of work from each of three of the functional fields of accounting, economics, and the remaining two functional fields in business administration; (3) at least six semester hours of courses selected from among Economics 604 Intermediate Statistical Methods [may not be applied in satisfaction of (1) above], Electronic Data Processing 508—Computer Information and Retrieval Systems—Cases and Problems, General Business 504—Administrative Policy, Office Administration 600—Business Research and Report Writing, or completion of a thesis for which six hours of credit will be earned. A committee to approve the thesis shall be appointed by the Chairman of the Graduate Committee of the College of Business.

No more than twelve semester hours of work from any functional area of study (exclusive of thesis credit) may be counted toward the degree. At least twenty-four semester hours of work must be completed in courses open only to graduate students.

All work for the Master of Business Administration degree must be completed within one eight-year period.

More detailed description of this program is presented in the Graduate Catalogue.

ACCOUNTING (ACC)

Claude K. Smith, Chairman; Brown; Dyer; French; Griffith; McIlvaine; Newbolt; Parsley; Richard.

The Department of Accounting provides courses in principles of accounting required of all students obtaining a degree in Business. In addition, it has two programs for majors in accounting. The professional accounting program is designed to prepare graduates to enter an accounting firm in anticipation of work toward the CPA certificate. The industrial accounting major is designed for students who want careers in government or industry but who do not intend to seek the CPA designation.

The professional accounting program requires 18 hours of accounting above 126 and must include ACC 441. The industrial accounting major requires 15 hours of accounting above 126 and must include ACC 226. It is recommended that the industrial accounting major carefully select his course in consultation with the faculty advisor to improve his career effectiveness. Courses submitted toward the major must be completed with a grade of "C" or higher. No minors or second majors are available in the Department of Accounting.

The Department of Accounting, in cooperation with the Graduate School and the College of Business, participates in the Master of Business Administration Program. A student may take a concentration in accounting consisting of 12 hours of graduate level accounting courses. However, ACC 600 cannot be taken by students who have an undergraduate major in accounting. A detailed description of this program is presented in the Graduate Catalogue.

Award

Each spring the outstanding junior on the professional accounting program is awarded the Yeager, Ford, & Warren Accounting Award. This award consists of a certificate of accomplishment and $100 provided by the Louisville firm of Certified Public Accountants, Yeager, Ford, & Warren.

ACCOUNTING (ACC)

ACC 124. Principles of Accounting. **Three hours.** I, II.
Fundamental accounting relationships; ledger and trial balances; journals and posting to accounts; completion of the accounting cycles; sales and cash receipts; purchases and cash payments; the periodic summary; notes and interest; and deferrals and accruals.

ACC 125. Principles of Accounting. **Three hours.** I, II.
Prerequisite: ACC 124 or satisfactory completion of departmental examination.
Receivables and merchandise inventory; plant assets-depreciation; systems and controls; payroll taxes and sales taxes; concepts and principles; partnerships; corporations-nature and formation, capital stock, capital, earnings, dividends, and long-term obligations and investments.

ACC 126. Principles of Accounting. **Three hours.** I, II.
Prerequisite: ACC 125.
Departments and branches; manufacturing and process cost; job order cost; budgetary control and standard costs, income taxes and business decisions; cost relationship for management; special analysis and internal reports; and statement analysis.

ACC 225. Principles of Accounting-Intermediate. **Three hours.** I, II.
Prerequisite: ACC 126.
Accounting statements; the recording process; the periodic summary; cash and temporary investments; receivables; inventories; current liabilities; investments in stocks, bonds, funds, and miscellaneous items.

ACC 226. Principles of Accounting-Intermediate. **Three hours.** I, II.
Prerequisite: ACC 225.
The acquisition, use, and retirement of plant and equipment; depreciation, depletion, and revaluations of plant and equipment; intangible assets and deferred charges; long-term liabilities; capital stock; surplus; statements from incomplete data; errors and their correction; statement analysis; statement of application of funds.

ACC 227. Cost Accounting. **Three hours.** I, II.
Prerequisite: ACC 126.
Cost flows and cost systems; the cost accounting cycle; factory overhead; departmentalized manufacturing expenses; job order cost, process cost, and standard cost accounting; budgeting; and direct costing.

ACC 320. Principles of Accounting-Advanced. **Three hours.** I, II.
Prerequisite: ACC 226.
Partnerships-formation and operation; special partnership problems; joint ventures; statement of affairs; receivership; statement of realization; estates and trusts; and actuarial science.

ACC 321. Principles of Accounting-Advanced. **Three hours.** I, II.
Prerequisite: ACC 320.
Installment sales consignments; home office and branch relationships; corporate combinations; consolidated balance sheet; special problems with consolidated balance sheets; consolidated income and retained earnings statement; foreign branches and subsidiaries.

ACC 322. Income Tax Accounting. **Three hours.** I, II.
Prerequisite: ACC 126.
Income tax legislation-Federal and State; returns for individuals; gross income; basis and determination of gain or loss; capital gains and losses; dividends; deductions; withholding. Students will have experience filling out tax forms.

ACC 323. Advanced Tax Accounting. **Three hours.** I, II.
Prerequisite: ACC 322.
Federal income tax report preparation with emphasis on partnership and corporate returns, estate and trusts; gift and estate taxes; special problems in preparation of tax returns.

ACC 441. Auditing and Public Accounting Practice. **Three hours.** I, II.
Prerequisite: ACC 226.
Professional ethics; accountant's legal responsibility; internal control; preliminary arrangements for an audit; general procedure of an audit; the original records; the asset accounts; the liability accounts; operating accounts; the audit report.

ACC 521. (Formerly ACC 421.) Fund Accounting. **Three hours.** I.
Prerequisite: ACC 126.
Advanced study in accounting and fiscal procedures for institutions and federal, state, county, and municipal governments.

ACC 525. (Formerly ACC 425.) Accounting Problems. **Three hours.**
Prerequisite: ACC 226.
This is an advanced course in accounting and the contents will be determined by the needs of the students registering for it. Taught by announcement.

ACC 527. Advanced Cost Accounting. **Three hours.** II.
Prerequisite: ACC 227.
Advanced problems in costs, budgets, distribution costs, measurements of departmental efficiency, and analysis of cost information for managerial decisions.

GRADUATE COURSES

ACC 600. Managerial Accounting. **Three hour.**
Prerequisite: ACC 126.
A study of accounting procedures and systems to provide data for managerial decision making. Subjects include planning, analysis of relevant cost, impact of taxes and limitations of data.

ACC 620. Controllership. **Three hours.**
Prerequisite: Graduate standing and 24 hours of accounting.
The place of the controller in management. Includes such subjects as quantitative techniques, systems, internal auditing, planning, taxes, insurance, and departmetal relationships.

ACC 625. Advanced Auditing. **Three hours.**
Prerequisite: ACC 441.
Rules of professional conduct; auditing standards and case studies of American Institute of Certified Public Accountants; auditing rules and regulations of Securities and Exchange Commission; analysis of problem areas in reporting.

ACC 627. Research in Taxes. **Three hours.**
Prerequisite: ACC 323.
An intensive analysis of the Internal Revenue Code. Research and discussion of tax problems affecting business and of tax planning and saving opportunities from the point of view of the professional accountant.

ACC 628. Accounting Theory. **Three hours.**
Prerequisite: Strong accounting background.
History and theory of accounting as discussed in accounting literature, periodicals, research bulletins, and publications of professional organizations.

ACC 640. Seminar in Accounting. **Three hours.**
Prerequisite: Strong accounting background.
This course involves directed readings and intensive investigation into controversial and specific areas of accounting. Oral and written reports required.

ACC 698-699. Thesis. **Six hours.**
Individual direction of research and thesis writing.

BUSINESS ADMINISTRATION

George G. Miller, Chairman; Bowersox; Gorgone; Hale; Hibbard; Meeks; Patterson; Yates; Young; Zach.

The Department of Business Administration offers courses in finance, management, marketing, business law, general business, and electronic data processing leading to the Bachelor of Business Administration degree in four major fields of interest and a two-year program of courses leading to the Associate of Arts degree in Electronic Data Processing.

The Department of Business Administration offers a concentration of work toward the Master of Business Administration degree which is briefly summarized on the preceding pages. Refer to the Graduate Catalogue for a more detailed explanation of the concentrations of work in Finance, Management, or Marketing leading to the Master of Business Administration degree.

There is a minor in business for students in colleges other than the College of Business. This minor consists of ACC 124, 125, ECO 230, 231, and six elective hours in Business Administration. This minor is provided primarily for students of the College of Applied Arts and Technology. Students in the College of Arts and Sciences require special permission from the Dean of the College of Arts and Sciences before such a minor is approved. The first two year's required work for the following majors may be found in the Central University College section.

The courses required in the Electronic Data Processing degree program and their recommended sequence for scheduling purposes are shown below. All Business Administration courses submitted toward this program must be completed with a grade of "C" or higher. A "C" average must be maintained on all work submitted for the Associate of Arts degree.

ELECTRONIC DATA PROCESSING (EDP)

Associate of Arts Degree

First Year

First Semester	Hours	Second Semester	Hours
ACC 124	3	ACC 125	3
EDP 161	3	EDP 162	3
EDP 171	3	EDP 172	3
GSE 101	3	GSE 102	3
MIL 101 (Men) or Elective (Women)	2	MIL 102 (Men) or Elective (Women)	2
OAD 151 or 152	2	OAD 101	2
	17		16

Second Year

ACC 126	3	ACC 227	3
ECO 230	3	ECO 231	3
EDP 260	3	EDP 262	3
EDP 261	3	EDP 274	3
EDP 281	3	EDP 282	3
MIL 201 (Men) or Elective (Women)	2	MIL 202 (Men) or Elective (Women)	2
	17		17

GENERAL BUSINESS (GBU)

The General Business major consists of ACC 322—Income Tax Accounting, GBU 504—Administrative Policy, and 18 hours above the business core. The 18 hours consists of three credit hours selected from each of the following six groups: Group I, ACC 227—Cost Accounting or MAT 111—Analytic Geometry and Calculus I; Group II, ECO 550—National Income or ECO 593—Intermediate Economic Theory and Analysis; Group III, MGT 340—Production Management or MGT 320—Personnel Management and Industrial Relations; Group IV, FIN 460—Public Finance and Taxation or FIN 324—Investment; Group V, MKT 424—Sales Promotion or MKT 500—Marketing Research and Analysis; Group VI, EDP 281—Symbolic Computer Programming—COBOL or EDP 508—Computer Information and Retrieval System. All courses submitted toward the major must be completed with a grade of "C" or higher. The courses required in this major and their recommended sequence for scheduling purposes are shown below.

Third Year

First Semester	Hours	Second Semester	Hours
ECO 324	3	ECO 391	3
Humanities Elective*	3	FIN 300	3
MGT 200	3	Group Elective	3-4
MKT 300	3	Humanities Elective*	3
General Education Science or Mathematics	3	OAD 301	3
	15		15-16

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*Selected from among the General Education, Humanities curricula. If a foreign language is elected, six semester hours of work must be taken in the foreign language to meet the Humanities requirement.

Fourth Year

First Semester	Hours	Second Semester	Hours
GBU 300	3	ACC 322	3
Group Elective	3	Business Elective	3
Group Elective	3	GBU 504	3
Group Elective	3	Group Elective	3
Non-Business Elective	4-6	Group Elective	3
	16-18		15

FINANCE (FIN)

The Finance major consists of the completion of ACC 322—Income Tax Accounting, GBU 504—Administrative Policy, and 18 hours of work above the business core; including FIN 304—Financial Institutions, FIN 324—Investments, FIN 420—Investments Analysis, and FIN 460—Public Finance and Taxation. All courses submitted toward the major must be completed with a grade of "C" or higher. The courses required in the Finance major and their recommended sequence for scheduling purposes are shown below.

Third Year

First Semester	Hours	Second Semester	Hours
ECO 324	3	ECO 391	3
FIN 300	3	FIN 304	3
Humanities Elective*	3	Humanities Elective*	3
MGT 200	3	MKT 300	3
General Education Science and Mathematics or Non-Business Elective	3	OAD 301	3
	15		15

Fourth Year

Business Elective	3	ACC 322	3
Business Elective	3	FIN 420	3
Business Elective	3	FIN 460	3
FIN 324	3	GBU 504	3
GBU 300	3	Non-Business Elective	4
	15		16

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*Selected from among the General Education, Humanities curricula. If a foreign language is elected, six semester hours of work must be taken in the foreign language to meet the Humanities requirement.

MANAGEMENT (MGT)

The Management major consists of the completion of ACC 322—Income Tax Accounting, GBU 504—Administrative Policy, and 18 hours above the business core in either of two options. The Personnel Management and Industrial Relations option includes MGT 320—Personnel Management, MGT 304—Methods Analysis, MGT 324—Collective Bargaining, and MGT 500—Human Relations in Business. The Production Management option includes MGT 340—Production Management, MGT 304—Methods Analysis, MGT 440—Production Control, and MGT 420—Management Control. All courses submitted toward the major must be completed with a grade of "C" or higher. The courses required in the Management major and their recommended sequence for scheduling purposes are shown below.

Personnel Management and Industrial Relations Option

Third Year

First Semester	Hours	Second Semester	Hours
ECO 324	3	ECO 391	3
FIN 300	3	Humanities Elective*	3
Humanties Elective*	3	MGT 320	3
MGT 200	3	MKT 300	3
General Education Science and Mathematics or Non-Business Elective	3	OAD 301	3
	15		15

Fourth Year

Business Elective	3	ACC 322	3
GBU 300	3	GBU 504	3
MGT 324	3	MGT 304	3
MGT 340	3	Business Elective	3
MGT 500	3	Non-Business Elective	4
	15		16

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*Selected from among the General Education, Humanities curricula. If a foreign language is elected, six semester hours of work must be taken in the foreign language to meet the Humanities requirement.

Production Management Option

Third Year

First Semester	Hours	Second Semester	Hours
ECO 324	3	ECO 391	3
FIN 300	3	Humanities Elective*	3
Humanities Elective*	3	MGT 340	3
MGT 200	3	MKT 300	3
General Education Science and Mathematics or Non-Business Elective	3	OAD 301	3
	15		15

Fourth Year

Business Elective	3	ACC 322	3
Business Elective	3	GBU 504	3
Business Elective	3	MGT 420	3
GBU 300	3	MGT 440	3
MGT 304	3	Non-Business Elective	4
	15		16

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*Selected from among the General Education, Humanities curricula. If a foreign language is elected, six semester hours of work must be taken in the foreign language to meet the Humanities requirement.

MARKETING (MKT)

The Marketing major consists of the completion of ACC 322—Income Tax Accounting, GBU 504—Administrative Policy, and 18 hours of work above the business core; including MKT 320— Advertising Promotion and Cases, MKT 500—Marketing Research and Analysis, and MKT 504—Marketing Management. All courses submitted toward the major must be completed with a grade of "C" or higher. The courses required in the Marketing major and their recommended sequence for scheduling purposes are shown below.

Third Year

First Semester	Hours	Second Semester	Hours
ECO 324	3	ECO 391	3
Humanities Elective*	3	FIN 300	3
MGT 200	3	Humanities Elective*	3
MKT 300	3	MKT 320	3
General Education Science and Mathematics or Non-Business Elective	3	OAD 301	3
	15		15

Fourth Year

Business Elective	3	ACC 322	3
Business Elective	3	GBU 504	3
MKT 500	3	Business Elective	3
GBU 300	3	MKT 504	3
MKT 420	3	Non-Business Elective	4
	15		16

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*Selected from among the General Education, Humanities curricula. If a foreign language is elected, six semester hours of work must be taken in the foreign language to meet the Humanities requirement.

ELECTRONIC DATA PROCESSING (EDP)

EDP 161. (Formerly Business 161) Introduction to Computer Logic. **Three hours.** I.

Prerequisite: Open only to non-business majors or students enrolled in the Associate of Arts, Electronic Data Processing Degree Program.

Numbering systems; bistable storage, binary calculations. Boolean abstract structuring of computer switching; the principles of logical design and expression. Three lecture and two laboratory hours.

EDP 171. (Formerly Business 171) Introduction to Computer Information and Retrieval Systems. **Three hours.** I.

Prerequisite: Only open to non-business majors or students enrolled in the Associate of Arts, Electronic Data Processing Degree Program.

The history of data processing; coding of the Hollerith punch card; preparation of punched card data input utilizing the key punch and verifier; functions and controls of the sorter, interpreter, and reproducer; conceptual computer programming.

EDP 162. (Formerly Business 162) Special Problems in Computer Programming. **Three hours.** II.

Prerequisite: EDP 171.

Execution of business procedures and application on the H-200 computer utiliizing EASYCODER programming.

EDP 172. (Formerly Business 172) Symbolic Computer Programming-Machine Oriented. **Three hours.** II.

Prerequisite: EDP 171.

Introduction to the H-200 computer system; concepts of the H-200 organization, memory, arithmetic, storage, control and logic; concepts of programming the H-200 computer in EASYCODER language. Three lecture and two laboratory hours.

EDP 260. (Formerly Business 271) Methods of Collecting, Analyzing, and Interpreting Business Data. **Three hours. I.**

Prerequisite: By permission of instructor.

Introduction to analysis of quantitative data. Concepts of ratios, percentages, averages, dispersion, skewness, kurtosis, probabilty theory, normal curve, sampling, distribution, and testing hypotheses applied to the solution of business problems.

EDP 261. (Formerly Business 261) Special Techniques — Input and Output Devices. **Three hours.** I.

Prerequisite: EDP 172.

Introduction to various input and output devices for the H-200 computer system; concepts of data organization transferring of data to and from devices, and operation. Three lecture and two labratory hours.

EDP 262. (Formerly Business 262) Systems Design and Development. **Three hours.** I.

Prerequisite: EDP 172.

Techniques of flow charting and block diagramming.

EDP 274. (Formerly Business 274) Linear Programming and Critical Path Method. **Three hours. II.**

Prerequisite: EDP 261.

Mechanics of solving practical business problems; Linear and Critical Path Methods of computer programming.

EDP 281. (Formerly Business 281) Symbolic Computer Programming—COBOL. **Three hours. II.**

Prerequisite: EDP 261.

Introduction to COBOL: history, structure, formula expressions, uses in business, format of instructions; advanced problems on the H-200 computer system. Three lecture and two laboratory hours.

EDP 282. (Formerly Business 282) Symbolic Computer Programming—FORTRAN: **Three hours. II.**

Introduction to FORTRAN: history, structure, formula expressions, uses in business; format instructions; advanced problems on the H-200 computer system. Three lecture and two laboratory hours.

EDP 312. Introduction to Data Processing Systems. **Three hours.** I, II.

Prerequisite: Junior standing.

Introduction to the history and development of peripheral and electronic computer information systems, including systems analysis, machine functions, computer organization, conceptual programming, and study of the uses of computer information systems in management. May not be taken for credit by Electronic Data Processing majors.

EDP 504. Peripheral Information Systems. **Three hours.** I.

Prerequisite: Senior-graduate standing.

Functional applications of business problems with specifc utilization of peripheral devices. Three hours lecture and two hours laboratory.

EDP 506. Computer Language Systems. **Three hours.** II.

Prerequisite: EDP 504.

Application of computer technology to selected business problems utilizing the H-200 System. Three hours lecture and two hours laboratory.

FINANCE (FIN)

FIN 300. (Formerly Business 308) Business Finance. **Three hours.** I, II.

Prerequisite: Junior standing.

Acquisition of funds; sources of permanent types of capital; sources of temporary types of capital; practices of short-term crelit institutions; management of corporate net income; alteration of financial structure.

FIN 304. Financial Institutions. **Three hours.** I.
Prerequisite: Junior standing.
Sources and uses of funds: savings and loan institutions; insurance companies; pension funds; trusts; and other financial intermediaries. Analysis of the impact of this area of financial operations on the economy.

FIN 308. Commercial Banking. **Three hours.** I.
Prerequisite: Junior standing.
Problems of commercial banking discussed from the point of view of bank management: size of asset reserves; credit analysis; investment policies; problems of equity reserves and capital account.

FIN 320. (Formerly Business 310) Principles of Risk and Insurance. **Three hours.** I, II.
Prerequisite: Junior standing.
Principles and coverages of insurance; nature of risk and methods of risk assumption: fire insurance; transportation insurance; casualty insurance; life insurance; fidelity and surety bonds.

FIN 324. (Formerly Business 440) Investments. **Three hours.** I.
Prerequisite: Junior standing.
Characteristics of bonds; characteristics of stocks; securities market; investment banking; sources of investment information; interpreting financial news; taxation of securities; investors of limited means; analysis of securities.

FIN 420. Investment Analysis. **Three hours.** II.
Prerequisite: FIN 324.
Securities analysis: grading and selection of securities; management of individual and institutional portfolios; case studies; oral and written reports by the student.

FIN 460. ,Formerly Business 430) Public Finance and Taxation. **Three hours.** II.
Prerequisite: Senior standing.
Distribution of government burdens: property tax; shifting and incidence of taxation; income tax; death anl gift taxes; taxes upon business; consumption taxes; motor vehicle taxes; and poll tax; social security taxes; taxes on natural resources; non-tax revenue.

GENERAL BUSINESS (GBU)

GBU 300. (Formerly Business 405) Business Law. **Three hours.** I, II.
Prerequisite: Junior standing.
Law in general; kinds of law persons; torts; contracts; personal property, real property; forms of business organization.

GBU 302. (Formery Business 406) Business Law. **Three hours.** II.
Prerequisite: Junior standing.
Bailments; sales of personal property; market practices; negotiable contract, surety-and guaranty; privilege of debetors; labor relations.

GBU 304. Development of American Industry. **Three hours.** I, II.
Prerequisite: Junior standing.
Comparative analysis of major industries in the United States. Selected motion pictures, slides, and audio tapes used to analyze the factors of integration and rationalization of each industry.

GBU 306. (Formerly Business 352) Organization and Operation of the Small Business. **Three hours.** I, II.
Prerequisite: Junior standing.
Small business: organization, location, financial planning; records: unit costs: merchandising; credits; personnel policies.

GBU 308. (Formerly Business 341) Salesmanship. **Three hours.** I.
Prerequisite: Junior standing.
The art of selling; motive behind buying; attitudes of buyer and salesman, the interview, arousing interest, creating desire, answering objections, meeting excuses, diplomacy of the close; types of customers.

GBU 310. (Formerly Business 312) Small Business Problems. **Three hours.** II.
Prerequisite; Junior standing.
Personnel management, business organization, policy and planning, wage payment, financial records and statements, purchases and sales, production control, and related problems.

GBU 504. (Formerly Business 510) Administrative Policy. **Three hours.** II.
Prerequisite: MGT 200 and senior or graduate standing.
Issues in organization and structure of the business, employment policies, pricing policies, relations with governmental agencies, research and development policies, marketing strategy, and employer and stockholder relations.

MANAGEMENT (MGT)

MGT 200. (Formerly Business 240) Concepts of Modern Organization. **Three hours.** I, II.
Prerequisite: Sophomore standing.
Concepts of management in business organization and operation: universality of management functions; search for a practical philosophy of management; fundamental concepts in decision making, planning, organizing, directing, and controlling.

MGT 304. (Formerly Business 326) Methods Analysis. **Three hours.** II.
Prerequisite: MGT 340.
Scientific methods of analyzing motions involved in industrial production and office tasks; equipment used in studying work systems; recording methods; analytical charts and graphical methods; concepts of re-design of work methods.

MGT 320. (Formerly Business 351) Personnel Management and Industrial Relations. **Three hours. II.**
Prerequisite: Junior standing.
Personnel management in factory, store, and office; job analysis, description, and classification; personnel selection, maintenance, and training: promotion: labor turnover, wage policies; health and safety.

MGT 324. Collective Bargaining. **Three hours.** I.
Prerequisite: MGT 320.
Analysis of bargaining procedures; study of basic institutional issues in bargaining, economic related administrative clauses, strike and lock out tactics, contract administration. Preparation, negotiation, and interpretation of labor contracts.

MGT 340. Production Management. **Three hours.** I.
Prerequisite: Junior standing.
Procedures and techniques employed in operations management; managerial decision-making; statistical, linear programming, and general quantitative analysis applied in case problems.

MGT 420. (Formerly Business 504) Management Control. **Three hours.** A.
Prerequisite: Senior standing.
Application of control systems; uses of accounting controls, payroll controls, personnel controls, and other control devices.

MGT 440. Production Control. **Three hours.** A.
Prerequisite: Senior standing.
Control of time, quantity, and quality of operations. Routing, scheduling, dispatching, and control problems. System relationships in manufacturing, sales, and technical staff departments.

MGT 460. (OAD 460). Records Management. **Three hours.** I.
Prerequisite: Senior standing.
Creation, classification, retention, protection, and disposal of records; filing procedures and equipment; effects of automation on records management; layout of facilities; personnel records administration; emphasis on administrative control of records. MGT 460 and OAD 460 may not both be counted for credit.

MGT 500. (Formerly Business 515) Human Relations in Business. **Three hours.** I.
Prerequisite: MGT 200 and senior or graduate standing.

Selected concepts from the behavioral sciences brought into a framework relevant to business decision making. Examines social science research in decision making by individuals and groups.

MGT 560. (OAD 560). Office Management. **Three hours.** II.
Prerequisite: Senior or graduate standing.

Function and organization of the office: office layout and equipment; office personnel—selection, training, supervision, and compensation; work simplification and control; automation in the office; planning, organizing, and controlling office services; systems and job analysis. MGT 560 and OAD 560 may not both be counted for credit.

MARKETING (MKT)

MKT 300. (Formerly Business 344) Marketing. **Three hours.** I, II.
Prerequisite: Junior standing.

Consumer buying. Marketing functions and institutions: direct selling, department stores; mail-order houses; chain stores; agricultural wholesaler; raw materials; co-operative marketing; speculation; price policies; brand policies; ethical aspects of marketing.

MKT 304. (Formerly Business 347) Retailing. **Three hours.** I.
Prerequisite: Junior standing.

Location and arrangement of stores; organizational principles; personnel procedures; time procedures; merchandising principles; sales promotion.

MKT 308. (Formerly Business 348) Wholesaling. **Three hours.** II.
Prerequisite: Junior standing.

Distribution of goods from manufacturing to the retailers; comparision of alternative methods; purchasing, transportation, and warehousing of goods; sales promotion of goods to the retailer.

MKT 320. (Formerly Business 343) Advertising. **Three hours.** I, II.
Prerequisite: Marketing 300.

Concepts of advertising: slogans; trademarks; layouts; engraving. Scheduling of advertising; direct mail; outdoor; dealer display; economic anl legal aspects of advertising.

MKT 324. (Formerly Business 349) Advertising Copy and Layout. **Three hours.** II.
Prerequisite: MKT 320.

Advertising copy for varied media; art principles used in design of graphic and written advertising materials.

MKT 420. Advertising Promotion and Cases. **Three hours.** I.
Prerequisite: MKT 320.

Advertising campaigns; research; planning; co-ordination between advertising and selling efforts. Budgets, trade areas, and media analysis campaigns.

MKT 424. (Formerly Business 442) Sales Promotion. **Three hours.** II.
Prerequisite: Senior standing.

Managerial control of sales development with particular reference to direct mail advertising, sampling, premiums, sales and consumer contests, consumer education and dealer relations.

MKT 500. (Formerly Business 543) Marketing Research and Analysis. **Three hours.** I.
Prerequisite: MKT 300 and senior or graduate standing.

The use of secondary research resources; building of bibliographies; preparation of reports for executives and clients.

MKT 504. (Formerly Business 545) Marketing Management. **Three hours.** II.
Prerequisite: MKT 300 and senior or graduate standing.

Policies and procedures in merchandising; selecting distribution channels; defining, locating, and reaching the market; determining marketing budgets; integrating advertising, personal selling and sales promotion; using and evaluating market research.

GRADUATE COURSES
FINANCE (FIN)

FIN 600. Administrative Analysis in Finance. **Three hours.** S.
Prerequisite: Graduate standing.
Readings, problems, and study of current controversial issues with emphasis on decision making in the financial administration of the firm.

FIN 698-699. Thesis. **Six hours.** I, II, S.
Individuals direction or research and thesis writing.

MANAGEMENT (MGT)

MGT 600. Administrative Analysis in Management. **Three hours.** I.
Prerequisite: Graduate standing.
Examines the evolution of management concepts and philosophies; an analysis of the contributions of various philosophies in the synthesis of an eclectic philosophy of management.

MGT 620. Administrative Analysis of Complex Organizations. **Three hours.** II.
Prerequisite: Graduate standing.
Parallel analyses of administrative practices in business and government with emphasis on administrative theory. Stress placed on administrative practices observed in the functions of planning, organizing, directing, and controlling.

MGT 698-699. Thesis. **Six hours.** I, II, S.
Individual direction of research and thesis writing.

MARKETING (MKT)

MKT 600. Administrative Analysis in Marketing. **Three hours.** S.
Prerequisite: Graduate standing.
Readings, problems, and study of current controversial issues with emphasis on decision making in the financial administration of the firm.

MKT 698-699. Thesis. **Six hours.** I, II, S.
Individual direction of research and thesis writing.

BUSINESS EDUCATION AND OFFICE ADMINISTRATION (BED and OAD)

Alfred Patrick, Chairman; Dunham; Gray F.; Hager; Hogg; Jennings M.; Jones; Keeton; Moberly; Mountz.

The purposes of the Department of Business Education and Office Administration at the undergraduate level are to prepare:

1. Qualified teachers of business education to be certified to teach in secondary schools.
2. Qualified secretaries in one-year, two-year, or four-year programs.

BUSINESS EDUCATION (BED)

Business Teacher Education Program

The Department of Business Education and Office Administration, in cooperation with the College of Education, provides programs leading to a Bachelor of Science degree and certificates qualifying graduates to teach business education at the secondary level. Teaching certificates may be in one of three forms. The Department offers an Area in Business (which requires a minimum of 52 hours in Business) for students who plan to teach business subjects exclusively; graduates with an Area in Business Education are certified to teach in all subject areas of Business Education at the secondary level. Majors in Business Education (which require a minimum of 31 to 34 hours in Business) are offered for those students who wish to combine teaching Business Education with other subjects. Majors may be completed with emphasis in any one of three fields: accounting, general business, or secretarial practice.

Students who desire to qualify as teachers for federally reimbursed vocational business education programs follow the same area or major programs outlined above; however, during their sophomore year, they should notify their faculty advisor that this type of certification is desired.

In order to be admitted to the teacher education program, a student must have a 2.0 grade-point average on his entire record and also in his teaching field or fields. However, to be eligible for student teaching and graduation, a grade-point average of 2.25 is required for the student's entire record and in his teaching field or fields.

Area in Business Teacher Education

Third Year

First Semester	Hours	Second Semester	Hours
ART 390	3	ENG 210 or 212	3
EDU 317	4	Humanities elective, upper division	3
ENG 209 or 211	3	OAD 203	3
OAD 202	3	OAD 301	3
OAD 253	2	SCI or MAT	3
SCI or MAT	3		
	18		15

Fourth Year

BED 461	1	ECO 324	3
BED 462	3	GBU 300	3
EDU 364	4	Business elective, upper division	6
EDU 463	10		
	18		12

Majors in Business Teacher Education

With emphasis in Accounting the following courses are required: ACC 124, 125, 126 and nine additional hours in accounting; BED 462; ECO 230; GBU 300; OAD 151, 152, 253.

With emphasis in General Business the following courses are required: ACC 124, 125, 126; BED 462; ECO 230, 231, 324; GBU 300; OAD 151, 152, 253; three hours elective in Business.

With emphasis in Secretarial Practice the following courses are required: ACC 124, 125, 126; BED 461, 462; ECO 230; OAD 115, 116, 151, 152, 202, 253, 254, 301.

All work toward an area or major in Business Education and Office Administration must be completed with a grade of "C" or higher.

The Department of Business Education and Office Administration sponsors Pi Omega Pi, a national honorary fraternity for outstanding students who are interested in teaching in the field of business. The aims of Pi Omega Pi are to:

1. Create, encourage, and promote scholarship in Business Education.
2. Aid in civic betterment in colleges and universities.
3. Encourage and foster high ethical standards in business and professional life.

Pi Omega Pi makes an annual award to its outstanding member. The Department also presents annually the National Business Education Association Professional Award to the outstanding senior in business teacher education.

Master of Arts in Education—Business Education

The Department of Business Education and Office Administration offers a graduate program in cooperation with the College of Education and the Graduate School. Students may earn the Master of Arts in Education degree with a specialization in Business Education. The Education Core (9 hours) must be completed and five of the following six Business Education courses (a minimum of 10 hours) must be completed: 550, 661, 662, 663, 664, 665. The remaining hours necessary to complete the 30-hour program will be chosen in consultation with the student's graduate advisor. Courses to correct undergraduate deficiencies in some areas of business may also be required.

OFFICE ADMINISTRATION (OAD)

As part of its undergraduate program, the Department of Business Education and Office Administration also offers programs for the preparation of secretaries.

Bachelor of Business Administration Degree in Office Administration

The Bachelor of Business Administration degree is offered for students who want to complete a four-year secretarial program without teaching certification. To complete the four-year secretarial program, the following courses in the College of Business are required: the business core (36 hours) and OAD 116, 152, 202, 203, 253, 254, and 560.

One-Year and Two-Year Secretarial Programs

The requirements for the one-year and two-year secretarial programs are shown below:

CERTIFICATE IN SECRETARIAL SCIENCE

(A one-year program for women students)

First Semester	**Hours**
ACC 124, Principles of Accounting	3
GSE 101, English Composition I	3
GSP 180, Fundamental Physical Education Activities	1
OAD 116, Intermediate Shorthand	3
OAD 152, Intermediate Typewriting	2
OAD 254, Office Machines	3
	15

Second Semester	**Hours**
ACC 125, Principles of Accounting	3
GSE 102, English Composition II	3
GSP 181, Fundamental Physical Education Activities	1
HEA 202, Safety and First Aid	2
OAD 202, Dictation and Transcription	3
OAD 203, Secretarial Practice	3
OAD 253, Advanced Typewriting	2
	17

This program must be completed with a "C" average or better. It is assumed that students have had some typewriting and shorthand in high school so that they may start in the second semester of each. If students have not had previous typewriting or shorthand, summer study of five hours will be necessary. In such cases the students will substitute OAD 151, Beginning Typewriting, two hours, or OAD 115, Beginning Shorthand, three hours, in place of the shorthand or typewriting courses shown above for the first semester.

EXECUTIVE SECRETARIAL PROGRAM

(A two-year program for women students)
Associate of Arts Degree

First Year

First Semester	**Hours**
ACC 124, Principles of Accounting	3
GSE 101, English Composition I	3
GSP 180, Fundamental Physical Education Activities	1
GSS 142, Culture and Society	3
OAD 101, Introduction to Business	3
OAD 151, Beginning Typewriting	2
	15

Second Semester	Hours
ACC 125, Principles of Accounting	3
GSE 102, English Composition II	3
GSP 181, Fundamental Physical Education Activities	1
OAD 115, Beginning Shorthand	3
OAD 152, Intermediate Typewriting	2
GSS 246, History of Western Civilization	3
	15

Second Year

First Semester	Hours
ACC 126, Principles of Accounting	3
ECO 230, Principles of Economics I	3
GSS 247, History of Western Civilization	3
OAD 116, Intermediate Shorthand	3
OAD 253, Advanced Typewriting	2
OAD 254, Office Machines	3
	17

Second Semester	Hours
ECO 231, Principles of Economics II	3
GSS 248, The Human Problem in the 20th Century	3
HEA 202, Safety and First Aid, or GSP 281, Personal and Community Health	2 or 3
OAD 202, Dictation and Transcription	3
OAD 203, Secretarial Practice	3
OAD 301, Business Communications	3
	17 or 18

This program must be completed with a "C" average or better.

BUSINESS EDUCATION AND OFFICE ADMINISTRATION

Business Education (BED)

BED 450. Special Problems in Business Education. One to three hours.

Prerequisites: Senior standing and permission of department chairman.

Study of significant problems, teaching methods, and research findings in business education; enrollment limited to students in business teacher education.

BED 461. (Formerly 461a) Materials and Methods in Teaching Shorthand. **One hour.** I, II.

Prerequisite: OAD 116.

Methods, techniques, and devices for teaching shorthand.

BED 462. (Formerly 461b) Materials and Methods in Teaching Bookkeeping, Basic Business, and Typewriting. **Three hours.** I, II.

Prerequisites: OAD 253, ACC 126 or its equivalent, and two courses in Business.

Methods, materials, and techniques used in the teaching of bookkeeping, typewriting, and the basic business subjects.

BED 550. Workshop in Business Education. **Three hours** A.

Offered during summer sessions only; enrollment will be limited to business teachers or seniors in business teacher education. A master's degree candidate may not count for graduate credit more than two of these workshops.

Office Administration (OAD)

OAD 101. (Formerly Business 101) Introduction to Business. **Three hours.** I, II.

Functional areas of business administration; forms of busines organization; factors in the location of an enterprise; risk bearing; and control systems used in business. For the student who has no background in business.

OAD 115. Beginning Shorthand. **Three hours.** I, II.

Prerequisite: OAD 151 or its equivalent.

Principles of Gregg shorthand; dictation and transcription. Four hours in class each week.

OAD 116 Intermediate Shorthand **Three hours** I, II

Prerequisites: OAD 115 and 152, or their equivalents.

A continuation of OAD 115 with increased emphasis on dictation and transcription, including the production of mailable business correspondence.

***OAD 151.** Beginning Typewriting. **Two hours.** I, II.

Techniques in keyboard control; skill building practices; knowledge and care of the machine; personal and business letters; use of carbon paper; tabulating; term papers and note books. Four hours in class each week.

OAD 152. Intermediate Typewriting. **Two hours.** I, II.

Prerequisite: OAD 151 or its equivalent.

Continued emphasis on speed and accuracy building; increased emphasis on business papers, manuscripts, reports, and tabulation. Four hours in class each week.

OAD 202. Dictation and Transcription. **Three hours.** I, II.

Prerequisite: OAD 116 and 152.

Continuation of shorthand vocabulary development; improvement of ability to take dictation and transcribe mailable copy; emphasis on development of skill necessary to meet occupational standards.

OAD 203. Secretarial Practice. **Three hours.** I, II.

Prerequisite: OAD 116.

The course is designed to train professional secretaries and to develop skills for secretarial competency and efficiency. The student is given experience in a variety of specialized secretarial duties.

OAD 253. Advanced Typewriting. **Two hours.** I, II.

Prerequisite: OAD 152, or its equivalent.

Increased emphasis upon advanced typewriting problems. Production typewriting is stressed. Five hours in class each two weeks.

OAD 254. (Formerly called Office Appliances and Procedures) Office Machines. **Three hours.** I, II.

Principles and practices of use of various figuring and calculating machines.

OAD 301. Business Communications. **Three hours.** I, II.

Prerequisite: Junior standing.

Principles and practices of modern written business communication; various types of business letters and reports are studied; emphasis is on writing letters and reports.

OAD 460 (MGT 460). Records Management. **Three hours.** I, II.

Creation, classification, retention, protection, and disposal of records; filing procedures and equipment; effects of automation on records management; layout of facilities; records personnel administration; emphasis on administrative control of records. OAD 460 and MGT 460 may not both be counted for credit.

OAD 560. (MGT 560) (Formerly 501) Office Management. **Three hours.** I, II.

Prerequisites: Senior standing; graduate enrollment on the basis of permission of instructor.

Function and organization of the office; office layout and equipment; office personnel—selection, training, supervision, and compensation; work simplification and control; automation in the office; planning, organizing, and controlling office services; systems and jobs analysis. OAD 560 and MGT 560 may not both be count for credit.

*Any student who has received at least **one full unit** of high school credit in typewriting will not be permitted to take OAD 151 for credit.

GRADUATE COURSES

BED 661. (Formerly 561) Improvement of Instruction in Bookkeeping and Basic Business. **Two hours.** II.

BED 662. (Formerly 562) Improvement of Instruction in the Skill Subjects. **Two hours.** I.

BED 663. (Formerly 563) Principles of Business Education. **Two hours.** I.

Objectives, principles, curricula, trends, and major problems of business education on the secondary level. For students preparing to teach business subjects.

BED 664. (Formerly 564) Seminar in Business Education. **Two hours.** II.

Reading and discussion relating to the major current problems in business education.

BED 665. (Formerly 565) Administration of a Business Education Department. **Two hours.** I.

Prerequisite: BED 663.

Problems in layout, equipment, curriculum planning, supervision, and testing in business education departments.

OAD 600. Business Research and Report Writing. **Three hours.** II.

Prerequisite: Economics 391 or equivalent.

Nature, scope, and importance of business research; research methodology; principles and mechanics of formal report writing; collection of data and completion of a formal report by each class member. Enrollment is limited to students in the Master of Business Administration degree program.

ECONOMICS (ECO)

Donald Shadoan, Chairman; Chrisman; Brizendine; Engle; Kemp; Pearson.

The curriculum in Economics is designed to increase the student's understanding of economic principles and to prepare the student for employment in the field of business and economics with privately owned firms and governmental agencies. Also, the program is designed to give the student an adequate background for graduate study.

A major in Economics may be taken by both the student working toward a degree in the College of Business and by the student pursuing a degree in the College of Arts and Sciences. A minor in Economics (non-teaching) is available only for the student pursuing a degree other than in the College of Business. A minor in Economics (teaching) is available to all students pursuing a teaching major.

A student enrolled in the College of Business, majoring in Economics, will take the business core courses and 18 additional hours in Economics which must include the following courses: ECO 597, 593, 550 or 492. A student enrolled in the College of Arts and Sciences, majoring in Economics, is required to take 30 hours in Economics which must include the following courses: ECO 230, 231, 324, 593, 597, 550 or 492.

A student taking work toward a minor in Economics (non-teaching) is required to take 18 hours in Economics including the following courses: ECO 230, 231, 324, 593, 550 or 492.

Students minoring in Economics (teaching) must take a minimum of 18 hours in Economics. Students with majors which require Economics must take at least 18 hours of economics in addition to the Principles of Economics course or courses (ECO 230, 231) required for that major. The following courses are required: ECO 230, 231 and 324. The remaining hours may be selected from the following courses: ECO 260, 333, 432, 492, 550, 597 and 593. Other additional upper division courses may be approved by advisor.

College of Business students must make a grade of "C" or higher in all courses counting toward the major in Economics.

The Department of Economics, in cooperation with the Graduate School and the College of Business, participates in the Master of Business Administration program. A student enrolled in this program may take a concentration in Economics consisting of 12 hours of graduate level Economics courses. In addition, the student is required to take ECO 604. All Economics courses counting toward a concentration in Economics must be selected in consultation with the student's advisor. A detailed description of this program is presented in the *Graduate Catalogue.*

ECONOMICS (ECO)

ECO 110. (Formerly ECO 410.) American Economic History. **Three hours.** A.

This is a general course in American Economic History, which stresses a historical description of trends and events from the European back ground of Colonial America to the present time. Special emphasis is placed upon modern interpretation regarding economic growth and upon governmental action in the field of economics.

This course will not count toward a major in business or economics.

ECO 111. European Economic History. **Three hours.** A.

A general survey of the economic conditions and activities of Europe from the Middle Ages to the present. Among the topics which will be treated are: the rise and breakdown of fudalism, the industrial revolution, the development of agriculture, industry, finance, and transportation.

This course will not count toward a major in business or economics.

ECO 230. Principles of Economics I. **Three hours.** I, II.

A course in microeconomics: A survey and study of the basic economic principles and their application to the firm operating in a modern economy. A study of the concepts of demand, supply, pricing, and resource allocation under various competitive conditions, marginal analysis, government and business, and income distribution.

ECO 231. Principles of Economics II. **Three hours.** I, II.

Prerequisite: ECO 230.

A macroeconomics course: A survey and study of the economic principles as they apply to the American economy. A study of national income, production, employment, the money and banking system, the modern theory of national income, economic growth, inflation and deflation, and the problems of economic stabilization.

ECO 260. Consumer Economics. **Three hours.** I, II.

The role of consumers in economic life, consumers choice; who guides consumers; freedom of choice; custom-made wants; the profitable practice of fraud; price appeal; making it easy to buy; consumer education; planning expenditures; intelligent buying; cooperative buying; buying protection; buying shelter; buying investments; producer aids to consumers; standards of consumers; governmental aids to consumers.

May not be included toward a BBA degree.

ECO 324. (Formerly Business 324.) Money and Banking. **Three hours.** I. II.
Prerequisite: ECO 231.

Nature and functions of money; kinds of money; monetary systems; history of banking; functions of the commercial bank; the national banking system; deposits and depositors; bank assets and reserves; loans and discounts; bank supervision; the federal reserve system; central banking policies and practices; monetary and fiscal policies both nationally and internationally.

ECO 333. Economics of Labor. **Three hours.** II.
Prerequisite: ECO 231.

This is a course in the economics of labor relations. Emphasis is placed upon the history of the labor movement, union structure and government, collective bargaining, the economics of the labor market, and governmental regulation and control of labor. Special attention is paid to current problems and issues in the field of labor relations.

ECO 391. (Formerly Business 391.) Statistical Methods. **Three hours.** I, II.
Prerequisite: Junior standing.

The course will consider such as the following: frequency distributions; measures of location; measures of variation; probability; theoretical distributions; sampling distribution; problems of estimation; tests of hypotheses; problems of sampling; linear regression; correlation; index numbers; time series analysis.

ECO. 394. International Economics. **Three hours.** I.
Prerequisite: ECO 324.

An introduction to international trade theory, balance of payments, commercial policies and selected international financial institutions. Surveying the problems of the international economy includes: (1) the challenge of the European Common Market; (2) international monetary reform; (3) disruptive effects of the Cold War; and (4) the special problem of the underdeveloped countries. The role of the U. S. is emphasized throughout.

ECO 432. Alternative Economic Systems. **Three hours.** I, II.
Prerequisite: ECO 231.

A somewhat detailed treatment of such topics as the following: capitalism; utopian forerunners; the Marxian theory of socialism and communism; modern socialism and communism; British socialism; the economy of the Soviet Union; Fascism as existed in Italy and Germany; the Consumers' Cooperative Movement.

ECO 492. (Formerly ECO 592.) Business Cycles. **Three hours.** II.
Prerequisite: ECO 231.

This course will deal with the following topics: growth, instability, inflation, and change; long-run growth; short-run fluctuations; personal spending and saving decisions; saving and spending in the business sector; government expenditure and tax patterns; the total flow of spending; prices, output, and employment; historical cyclical patterns; business cycle theories; and economic forecasting.

ECO 495. (Formerly ECO 595.) The Economics of Growth and Development. **Three hours.** II.
Prerequisite: ECO 231.

The measurement of underdevelopment; the international distribution of income; the causes of economic growth; public policy for the promotion of economic growth; theories and development.

ECO 510. History of Economic Thought. **Three hours.** I.
Prerequisite: ECO 231.

A study of the history of economic ideas from the ancient period to the end of the classical period. Stress is placed on the need for a critical analysis of the meaning, validity, and relevance of economic theories with respect to the social and economic environment of the theorists.

ECO 511. History of Economic Thought Since the Austrian School. **Three hours.** II.
Prerequisite: ECO 231.

A critical study of economic thought since 1870: forerunners of neoclassical economics; neoclassical thought; American Institutionalists; the Historicists; economic aggregates and econometrics; theories of business activities from Misselden to the depression of the 1930's; Keynesian and post Keynesian theories; association and planning.

ECO 550. (Formerly ECO 450.) National Income Analysis. **Three hours.** I.

Prerequisite: ECO 231.

A study of the fundamentals of macroeconomic analysis: the classical background; Keynes' objections to classical theory; basic national income concepts; consumption demand and the consumption functions; investment and income determination; interest and money; money wages and prices; employment theory; the development of Keynesian thought and the social philosophy toward which it leads.

ECO. 593. (Formerly ECO 493.) Intermediate Economic Theory and Analysis. **Three hours.** I, II.

Prerequisite: ECO 231.

A development of the leading theories and analyses of value and distribution. Problems and policies of price determination of both the firm and the industry and factor pricing are considered at the intermediate level of analysis.

ECO 597. (Formerly ECO 497.) Private Enterprise and Public Policy. **Three hours.** I.

Prerequisite: ECO 231.

A study of the principal statutes pertaining to business behavior and their application by agencies and the courts. Specific policies are analyzed from the standpoint of legal and economic concepts and principles underlying them.

GRADUATE COURSES

ECO 600. Managerial Economics. **Three hours.** II.

Prerequisite: ECO. 231 or equivalent.

This course deals with the phases of micro and macro economics that are directly relevant to managerial decision making. The concepts to be considered are: demand, costs, profits, competition, pricing, national income analysis, and economic stabilization. A considerable amount of emphasis will be placed upon the imperfect market conditions facing the decision maker.

ECO. 604. Statistical Methods. **Three hours.** I.

Prerequisite: ECO. 391 or equivalent.

An intermediate course in statistical methods that deals with the following topics: sampling theory, elementary probability theory, multiple and linear correlation analysis, hypotheses testing, chi-square distribution, analysis of variance, economic forecasting, and non-parametric statistics.

ECO 620. Contemporary Economic Problems. **Three hours.** A.

Prerequisite: ECO 231 and approval of instructor.

This course deals with the application of economic principles to certain contemporary economic problems such as economic growth, economic stability, taxation, employment, poverty, national debt, gold outflow, monetary and fiscal problems.

Individual direction of reasearch and thesis writing.

College of Education

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Elementary Education Curriculum . 262
Education . 262
Reading Clinic . 271
Health, Physical Education and Recreation . 272
Laboratory School . 283
Library Science . 284
Professional Laboratory Experiences . 286
Psychology . 287

COLLEGE OF EDUCATION

Dixon A. Barr, Dean

J. D. Coates, Associate Dean

Charles H. Gibson, Jr., Assistant Dean

Eastern Kentucky University has maintained a strong interest in and commitment to the preparation of teachers since its founding in 1906. While teacher education at Eastern is viewed as an all-university function, the College of Education assumes major responsibility for students majoring in elementary education, library science, physical education, psychology, recreation, and school health. Freshman and sophomore students in these academic areas are advised in cooperation with Central University College; upper classmen entering these programs will be assigned an advisor by their department chairman upon admission to the College of Education.

Admission to the College of Education

Admission to the College of Education for majors in elementary education, library science, physical education, psychology, recreation and school health, is based on the following requirements:

1. Completion of a minimum of 64 semester hours of prescribed coursework in the appropriate program in Central University College.
2. Attainment of a cumulative grade point average of 1.8 (on a 4.0 scale) or higher.

Admission to Teacher Education

Those students planning to follow a teaching program in the College of Education **must** meet the requirements for admission to the Teacher Education program. It must be clearly understood that admission to the College of Education is **not** synonymous with admission to the Teacher Education Program. The specific requirements for admission to the Teacher Education program are found in the General Academic Information section of this catalogue.

Graduation Requirements

Students completing programs in elementary education, physical education, psychology, recreation and school health are eligible for the Bachelor of Science degree. Library Science majors are eligible to receive the Bachelor of Arts degree upon satisfactory completion of program requirements. General graduation requirements from the College of Education are as follows:

1. Completion of a minimum of 128 semester hours, 43 of which **must** be in upper division courses (300, 400 and 500 levels). Thirty of the last 36 hours must be earned **in residence** at Eastern Ken-

tucky University. Not more than twenty-five per cent of the total credits offered for a degree may be in correspondence and/or extension work. Credits earned by correspondence may be accepted only if approved by the student's major professor and the Dean of the College of Education.

2. Completion of **all** coursework on the student's Planned Curriculum.
3. Attainment of a minimum cumulative grade point average of 2.0 or higher. (Students in teaching curricula are reminded that a 2.25 in over-all coursework, in professional education, and in academic major/minors is required for admission to student teaching.)

Secondary education majors (other than those in Library Science, Physical Education, and School Health) will follow the prescribed curriculum and requirements of another academic college, as well as the policies for Teacher Education stated elsewhere in this catalogue. These students take certain professional education coursework in the College of Education, as well as in their academic college. Faculty members in other colleges teaching courses open primarily to prospective or in-service secondary school teachers are on joint-appointment with the College of Education. The College of Education cooperates closely with the other colleges in matters pertaining to the secondary major's admission to Teacher Education, as well as approval for, assignment to, and supervision of student teaching. The Dean of the College of Education and the appropriate academic dean jointly approve the graduation application for secondary education majors.

Graduate Programs

The College of Education in cooperation with the Graduate School has developed and implemented Master of Arts in Education degree programs for elementary school teachers, guidance counselors, school librarians, and secondary school teachers of health and physical education. Other graduate programs include a fifth year program for certificate renewal, a sixth year program leading to Rank 1 certification, the Master of Arts degree in guidance and counseling for non-school personnel, and a joint doctoral program in education (Ed.D. and Ph. D.) with the University of Kentucky. Work leading toward ultimate certification in school administration and/or supervision may be elected, subject to institutional approval, while pursuing the master's degree in a teaching field. The College of Education also offers the Master of Science degree in Psychology for prospective school and clinical psychologists. Graduate programs leading to the Master of Arts in Education degree have been developed in many secondary teaching fields in cooperation with the College of Applied Arts and Technology, the College of Arts and Sciences, and the College of Business. Specific information regarding these graduate programs is found elsewhere in this publication and in the separate **Graduate Catalogue.**

EDUCATION (EDU)

Eddie P. Ort, Chairman; Acker; A. Algier; Byrne; Childers; Coleman; Flesher; E. Francis; Gaskins; Gill; Grise; J. Harris; J. Howard; B. Hume; W. Jones; Marcum; H. Martin; Mills; Peel; Ramsey; Ross; Stark; Stratemeyer; Stull; L. Taylor; Wheeler; Woolum.

The Department of Education has advisory and curricular responsibility for students majoring in elementary education. It also offers courses in professional education for secondary education majors as well as elective courses for other interested students. The department's primary responsibilities for graduate education are essentially threefold: (1) major programs for elementary school teachers, reading teachers, school administrators, supervisors, and counselors; (2) professional courses for secondary school teachers; and (3) programs for advanced certification of school personnel. (For further details, see the **Graduate Catalogue**).

Curriculum for a major in Elementary Education. (Teaching).

The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
ART 360	3	ART 361	3
EDU 317	4	HIS 202	3
ENG 350 or 351	3	LIB 301	3
MAT 202	3	MUS 360	3
MUS 271	3	PHE 322	2
	16		17

Fourth Year

EDU 354	3	EDU 460	6
EDU 360	3	EDU 463	10
SCI 475	3		
Electives	6		
	15		16

ELEMENTARY EDUCATION CURRICULUM

ART		6
360 The Art Process and Materials in the Elementary School	3	
361 Art Education in the Elementary School	3	
EDUCATION		29
*202 Professional Orientation	3	
317 Human Development	4	
354 Reading in the Elementary School	3	
360 Teaching of Elementary School Mathematics	3	
460 Fundamentals of Elementary Education	6	
**463 Supervised Student Teaching	10	

ENGLISH		15
101-102 (General Studies) English Composition	6	
211 Survey of Literature I	3	
212 Survey of Literature II	3	
350 or 351 American Literature I or II	3	
HEALTH AND PHYSICAL EDUCATION		7
180 (General Studies) Fundamental Physical Education Activities	1	
181 (General Studies) Fundamental Physical Education Activites	1	
281 (General Studies) Personal and Community Health	3	
322 Physical Education in the Elementary School	2	
HUMANITIES ELECTIVE		3
ART 200, Art Appreciation: Orientation; DRA 100, Introduction to the Theatre; or six hours of the same foreign language.		
LIBRARY SCIENCE		3
301 Children's Literature and Related Materials	3	
MATHEMATICS		6
201 Understanding Arithmetic	3	
202 Understanding Elementary Mathematics	3	
MILITARY SCIENCE (MEN); ELECTIVES (WOMEN)		8
101 Introduction to Military Science	2	
102 Basic Military Training	2	
201 Second Year Basic Military Training	2	
202 Second Year Basic Military Training	2	
Elective (Women)	8	
MUSIC		6
360 Public School Music	3	
Elective: MUS 271, 371, or 372	3	
PSYCHOLOGY		3
211 General Psychology	3	
SCIENCE		15
Any four of the following five courses: GLY 108, GSC 161, 162, 170, 176	12	
475 Science for Elementary Teachers	3	

SOCIAL SCIENCE		18
142 (General Studies) Culture and Society	3	
144 (General Studies) Contemporary Social Problems or 248 (General Studies) The Human Problem in the 20th Century	3	
246-247 (General Studies) History of Western Civilization	6	
GEO 101 Principles of Geography or GEO 102 Principles of Geography II	3	
HIS 202 American History to 1877	3	
***ELECTIVES		9-17
TOTAL		128

NOTES:

*Junior and Senior transfer students will enroll in EDU 300 in lieu of EDU 202.

**In-Service teachers having three years of teaching experience may enroll in EDU 463b for eight semester hours of credit in the summer session only.

***With prior approval of advisor. Variation in number of elective hours is determined by the number of hours taken in Military Science.

EDUCATION (EDU)

EDU 011. Rapid Reading and Study Skills (Non-credit) I, II.

Designed for improvement in vocabulary development, comprehension and critical reading skills, course includes: how to study effectively (SQR-4 technique), how to budget time, how to listen and take notes, how to build vocabulary, how to prepare for and take examinations, how to become a flexible reader and how to improve concentration.

EDU 202. Professional Orientation. **Three hours.** I, II.

Prerequisite: Sophomore standing.

Designed to acquaint the student with the role of public education and the nature of the teaching profession. He will be guided in analyzing his personal fitness for teaching and in choosing a teaching field. Application is made for admission to the Teacher Education Program.

EDU 300. Issues and Trends in American Education. **Three hours.** I, II.

Required of junior level transfer students. Focus is on current issues and trends in American education, and their implications for teachers and school programs. Students make application for admission to the Teacher Education Program and assessments are made of their potentials for a career in teaching.

EDU 317. (Formerly EDU 315 and 316.) Human Development. **Four hours.** I, II.

Prerequisite: PSY 211, Biological or Physical Science, admission to Teacher Education Program.

Study of the physiological, affectional, peer, cultural, and self processes which influence development and learning at all stages from conception to adulthood. Emphasis upon principles of development and learning for children and adolescents with related implications for teacher behavior. Provides laboratory experience of studying one child through time to reveal the impact of these forces upon both groups and individuals.

EDU 354. Reading in the Elementary School. **Three hours.** I, II.

Prerequisite: EDU 317, admission to Teacher Education Program.

Methods and materials for teaching reading in the elementary school.

EDU 356. Social Studies in the Elementary School. **Three hours.** I, II.

Designed for prospective and in-service elementary school teachers in which attention will be given to both curriculum and the methods in the social studies. The development of materials, reading instruction in social studies, and the sources of content will be studied.

EDU 358. Language Arts in the Elementary School. **Three hours.** I, II.

Designed to help the student gain understanding of the role of the language arts in the elementary school curriculum. Content will focus upon listening, speaking, spelling, handwriting, and written expression. Attention is not given to the teaching of reading.

EDU 360. Teaching of Elementary School Mathematics. **Three hours.** I, II.

Prerequisites: EDU 317, MAT 201, 202, and admission to Teacher Education Program.

Study of effective methods of teaching elementary mathematics; emphasis on discovering and developing fundamental concepts as a foundation for problem-solving; use of modern instructional media in planning and demonstrating lesson plans. Students will have opportunities to observe classes on primary and intermediate levels.

EDU 384. (Formerly EDU 47 and 383.) Organization and Administration of the School System. **Two hours.** A.

Prerequisite: Junior standing.

Designed to give the student a clear picture of the public school system. Among the topics treated are the study of and participation in experiences leading to an understanding of the principles and practices in the organization and administration of the total school system.

EDU 501. (Formerly EDU 301.) The Junior High School. **Two hours.** A.

Origin, development, and present status of the junior high school movement; the place of the junior high school in the public school system; the aims, purposes, and objectives of the junior high school; evaluation of types of programs; the junior high school plant; library, apparatus, and equipment of the junior high school.

EDU 507. Problems in Education. **One to three hours.** A.

Prerequisite: Approval of advisor and the Chairman of the Department of Education.

For independent work, special workshops, or a special topic, or seminar.

EDU 508. (Formerly EDU 302 and 303). Administration of Pupil Personnel Services. **Three hours.** A.

Designed for the preparation of pupil personnel workers; a study of various approaches to understanding of the pupil with an educational setting as the basis of a study. The course also includes the relationship of attendance to pupil progress; social and economic factors affecting attendance; school census and personnel records. Study is made of personnel work in typical schools in Kentucky.

EDU 515. (Formerly EDU 415.) The Role of the Teacher in Guidance. **Three hours.** A.

Designed to aid the prospective teacher in examining the concepts, principles, and foundations of guidance as these apply to the role of the teacher. Particular emphasis will be given to those guidance functions which can be performed by teachers. The interrelationships of counselor, teacher, and administrator as these are related to guidance will be stressed.

EDU 516. (Formerly EDU 416.) Child Development Laboratory I. **Three hours.** A.

Each participant selects a child for study, writes a description of the child, and gathers significant data about the child from all available sources of information. Emphasis is placed upon skills in observation, objectivity in recording, and realism in analysis of causes of behavior. The course, for in-service teachers, continues for the entire school year, and each participant must complete his analysis in a structured summary.

EDU 517. (Formerly EDU 417.) Child Development Laboratory II. **Three hours.** A.
A continuation of EDU 516, but with added emphasis on procedures for analysis of the dynamics of behavior. A structured framework of six broad areas of factors and processes in child development is employed. The records must be summarized in terms of developmental tasks within these areas.

EDU 518. (Formerly EDU 418.) Child Development III. **Three hours.** A.
A continuation of EDU 517.

EDU 519. (Formerly EDU 419.) Teaching in the Kindergarten. **Three hours.** A.
Designed primarily for students who are interested in the theory and practice of teaching kindergarten. Content will focus upon the kindergarten movement; organization, equipment, curriculum, and procedures used with children of kindergarten age; and the leaders and literature of kindergarten education. Some opportunity will be provided for observing and participating in kindergarten.

EDU 520. Creative Experiences in Early Childhood Education. **One to Three hours.** A.
Designed for prospective and in-service nursery school, kndergarten, and day-care center teachers to explore ways of fostering creativity in children under six. Focus will be upon the nature of creativity, development of skills used in creative expression, and activities which promote creativeness in the pre-school child.

EDU 521. Measuring and Evaluating Pupil Progress. **Three hours.** I.
A thorough study of modern concepts of evaluation. Emphasis on assumptions, approaches, and procedures used in measuring, evaluating, and reporting pupil progress.

EDU 523. Guiding Classroom Learning. **Three hours.** II.
Emphasis on understanding and applying principles of learning in a classroom setting. Study of ways in which a teacher can develop his instructional program so that an optimal learning environment can be effected.

EDU 526. Applying Research to Classroom Problems. **Two hours.** I.
Study and interpretation of recent research for the help it can give in dealing with classroom situations and problems. Class members will be encouraged to focus on situations and problems directly related to their own teaching.

EDU 537. Comparative Education. **Three hours.** I.
A study of the development of educational thought and practice in selected nations of Europe, the Orient, and South America. Emphasis will be placed on intellectual, historical, and sociological factors responsible for similarities and differences among the selected systems. Special emphasis will be given to a comparison of American and Communist educational techniques.

EDU 541. Survey of Elementary Curricular Programs. **Three hours.** I, II.
Designed for those students in physical education, art, or music who are seeking certification for grades 1-12. This course studies the elementary curriculum as it meets the needs of the child in every sense in which the school is responsible. The role of special teachers, the problems of individual learners, and function of the entire school-community are examined in their relation to one another.

EDU 545. (Formerly EDU 445.) Introduction to the Education of Exceptional Children. **Three hours.** II.
Introduction to programs, problems, and procedures of working with children who are exceptional—mentally, physically or emotionally. Focuses on children who have problems of vision, hearing, and speech, as well as those with physical and neurological defects. Some attention is given to recent research dealing with the exceptional child and special education programs.

EDU 569. (Formerly EDU 369.) Instructional Media. **Three hours.** I, II.
The philosophy and techniques of the effective utilization of instructional media. Emphasis is on slides, tape and disc recordings, films, filmstrips, transparencies, programmed instruction, and the operation of equipment for presenting such media. Sources of materials will be discussed. (Also LIB 569)

EDU 574. Teaching Reading in the Secondary School. **Three hours.** A.
Prerequisite: EDU 317, admission to Teacher Education Program.
Designed to assist the secondary teacher in teaching reading in the content areas. Includes emphasis on developmental reading, reading skills, (vocabulary development, critical reading, concentration, and study techniques). Attention is given to appraisal of reading abilities, appropriate materials, evaluation, and organization of reading programs at the secondary level.

EDU 576. Techniques and Materials for Remedial Reading. **Three hours.** I, II.
Prerequisite: EDU 354 or its equivalent.
Methods, materials, and techniques appropriate to the correction of reading difficulties.

EDU 577. Practicum in Remedial Reading. **Three hours.** I, II.
Prerequisite: EDU 576.
Supervised experiences in diagnosis and correction of reading problems.

GRADUATE COURSES

EDU 600. (Formerly EDU 500.) Introduction to Educational Administration. **Three hours.** I, II.
Study of theories of administration and practice of these theories at the system level and community level. Studies of administrative functions of school personnel are examined. Research in the administration field by CPEA makes up a large part of the materials for the course.

EDU 601. (Formerly EDU 501, School Administration.) School Personnel Administration. **Two hours.** A.
To acquaint school administrators with problems that arise in the management of school personnel.

EDU 602. (Formerly EDU 502, School Administration II.) School Buildings and Grounds. **Two hours.** A.
Emphasis on the cooperative planning of school buildings that will fit the school program as identified by educational specifications. Equipping, furnishing and maintaining the buildings are studied.

EDU 603. (Formerly EDU 503, School Administration III.) School Finance. **Two hours.** A.
A study of the financing of the public schools. Stress is given to the importance of the administrator's understanding the problems and issues of school finance at the local, state, and federal levels in order that he may provide leadership that will pave the way for adequate support.

EDU 605. (Formerly EDU 505.) Kentucky School Law. **Two hours.** A.
The principles of school law, constitutional provisions relating to public schools in Kentucky, school districts, buildings and other school property, school officers, the State Department of Education, school support, conduct of schools, compulsory attendance, school faculties and other employees, retirement, tenure, vocational education, rehabilitation education, higher education, and court interpretation of the laws.

EDU 606. The Elementary School Principal. **Three hours.** II.
Prerequisite: EDU 600.
The organization and management of the elementary school. A study of the various duties, demands, and responsibilities of the elementary school principal in providing professional and educational leadership.

EDU 607. The Secondary School Principal. **Three hours.** II.
Prerequisite: EDU 600.
The organization and management of the secondary school. A study of the various duties, demands, and responsibilities of the secondary school principal in providing professional and educational leadership.

EDU 610. (Formerly EDU 510.) Elementary School Curriculum. **Three hours.** I, II.
Study in depth of principles, practices, materials, and procedures in current curriculum development and revision in the elementary school.

EDU 611. (Formerly EDU 511.) Supervision of Instruction. **Three hours. I.**

Objectives and problems of school supervision; techniques and functions of supervision; current practices in supervision; problems of organizing instruction to meet increasing responsibilities of public schools; analyzing teachers' difficulties; planning supervisory programs; selecting and organizing instructional materials; techniques for developing desirable professional relations; problems of in-service education for teachers.

EDU 612. (Formerly EDU 512.) Curriculum Development. **Two hours. II.**

A critical study of issues and problems in curriculum development, the rationale underlying major positions on these issues, implications for work at various levels of the educational program, and principles and techniques of curriculum change.

EDU 613. (Formerly EDU 513.) Principles of Guidance. **Two hours. I.**

The introductory course in guidance and counseling. Designed to familiarize the student with the background, purpose, and role of guidance and counseling. Pupil personnel services as a team approach in education. Coverage of guidance services such as counseling, group counseling, group guidance, information, inventory, placement, and consultative service. Role and function of the counselor and his relationship to other staff. Role of the teacher and administrator in guidance.

EDU 614. (Formerly EDU 514.) Organization and Administration of Guidance Services. **Two hours. I.**

Prerequisite: EDU 613.

Focus on the selection of materials and organization of programs for school guidance. Types of organizational patterns, methods of initiating a program, and evaluative techniques are considered. The relationship of guidance personnel to other staff members and to the community is examined.

EDU 615. (Formerly EDU 515.) Human Development. **Three hours. I, II.**

Study of the forces which influence personality development and learning, implications for classroom procedures, and the role of the teacher in using these forces to promote optimum development and learning. Each student is expected to choose and conduct intensive research on some problem of interest in the area of human behavior.

EDU 616. (Formerly EDU 516.) Measurement and Guidance. **Three hours. I.**

An intensive study of measurement and other techniques for guidance and counseling in schools, including counseling and guidance principles and techniques. Some attention is given to statistical methods. Recent developments in guidance and counseling are evaluated and effective programs are given special consideration. Fee, $2.00.

EDU 618. (Formerly EDU 518.) Practicum in Counseling. **Two hours. II.**

Designed to build proficiency in counseling and interviewing. Includes brief review of modern counseling and interviewing techniques and their purpose in guidance; major emphasis is given to compilation and study of case histories of records, and actual interviewing and counseling with pupils, teachers, parents, supervisors, and administrators.

EDU 619. (Formerly EDU 519.) Clinical Study of Exceptional Children. **Two hours. A.**

Methods are studied for diagnosing and teaching brilliant, retarded, physically handicapped, and emotionally maladjusted children.

EDU 622. (Formerly EDU 522) Occupational and Educational Information. **Two hours. II.**

Prerequisite: EDU 613 and 614, or experiences as a guidance counselor.

A survey of the development and use of occupational and educational information in counseling and guidance.

EDU 625. (Formerly EDU 525.) Guidance in the Elementary School. **Three hours. A.**

A survey of the current trends, issues, and concepts of elementary guidance and counseling. Current programs of elementary guidance are analyzed and implications for integration in the students' situations are examined. Opportunity for observation of elementary students is provided so that the developmental pattern of these youth may be integrated more accurately into the didactic material. The relationship of the elementary counselor to other staff members is considered.

EDU 628. (Formerly EDU 528.) Instructional Television. **Three hours** A.

Exploration of television as a teaching tool. Theory and practice of planning the utilization of instructional television programs and courses. Emphasis on the cooperative role of the producer-director. The part of the television-studio teacher and the television-classroom teacher is explored. History of educational television, television research, and the literature in the field are included. Supervised critical viewing of course segments is an integral part of the course.

EDU 632. (Formerly EDU 532.) History of Education in the United States. **Two hours.** I, II.

Rise and development of public education in the United States with special emphasis upon the work of Horace Mann; sociological, psychological, and scientific movements in education; desirable education reorganization; the influence of John Dewey; brief study of the development of public education in Kentucky.

EDU 636. (Formerly EDU 536.) Philosophy of Education. **Two hours.** I, II.

Meaning and scope of philosophy and education; contrasting philosophies and conceptions of education; the nature and meaning of education in relation to the individual and the social order; education and democracy; social progress and social control; the nature of thinking; educational aims and values; subject matter and methodology in relation to the educative process; character education; evaluation and interpretation of present-day issues and problems in education.

EDU 638. (Formerly EDU 538.) Modern Trends in Educational Philosophy. **Two hours.** A.

Prerequisite: EDU 636 or its equivalent.

A study of alternative philosophies and their implications for current educational theory and practice.

EDU 642. (Formerly EDU 542.) Applied Statistical Methods. **Two hours.** I.

Measurement in psychology and education; frequency distributions; measures of central tendency; measures of variability; applications of the normal distribution curve; reliability and significance of statistics; testing hypotheses; prediction and errors of prediction; correlation methods; reliability and validity of tests.

EDU 650. (Formerly EDU 550.) Educational Sociology. **Three hours.** I, II.

Relation of sociology to education; sociological problems and their educational implications; social groups and institutions in relation to education; social forces and their significance in society; the sociological determination of educational objectives; social elements and values in the curriculum; democracy in school administration and supervision; essential elements of a socialized educational program.

EDU 655. Integration of Modern Curriculum and Learning Principles. **Four hours.** I, II.

Study of issues and problems in curriculum development with emphasis on the application of principles of learning to curriculum decisions. These decisions relate to such areas as the selection and guidance of learning experiences at various levels of the educational program and to principles and techniques for curriculum change.

EDU 662. (Formerly EDU 562.) The Role of the Principal. **Three hours.** I, II.

Prerequisite: EDU 600.

The organization and management of the local school. A study of the various duties, demands, and responsibilities of the principal in providing professional and educational leadership.

EDU 663. (Formerly EDU 563.) Secondary School Curriculum. **Three hours.** II.

Aims of the public secondary schools; plans for evaluating curriculum procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency.

EDU 664. Investigations in Language Arts. **One to three hours.** A.

Designed for graduate students who desire to make a critical study of the investigative and theoretical literature dealing with the teaching of language arts (listening, spelling, handwriting, oral and written expression) in the elementary school. Research in the teaching of reading is not included.

EDU 665. (Formerly EDU 565.) Investigations in Reading. **One to Three hours.** II.
Prerequisite: Permission of the instructor.
Individual research and study of investigative and theoretical literature dealing with the teaching of reading in the elementary school.

EDU 666. (Formerly EDU 566.) Investigations in Elementary School Mathematics. **One to three hours.** II.
Designed for graduate students who desire to make a critical study of the investigative and theoretical literature dealing with the teaching of mathematics in the elementary school.

EDU 667. (Formerly EDU 567.) Investigations in the Teaching of Social Studies. **One to three hours.** A.
Designed for graduate students who desire to make a critical study of the investigative and theoretical literature dealing with the teaching of social studies.

EDU 669. (Formerly EDU 569.) Research in Education. **Two hours.** I, II.
Functions of educational research; types of research and the principal techniques of each type; bibliography; discovering education problems for study; organization and interpretation of data; preparing and evaluating research reports; class discussions and reading reports.
Required of all candidates for the Master of Arts in Education degree who do not prepare a thesis.

EDU 670. (Formerly EDU 570.) Thesis. **One to three hours.** A.
Designed for students who are preparing a thesis in partial fulfillment of the requirements for the degree of Master of Arts in Education. If the thesis requirement is waived, EDU 669, Research in Education, is required.

EDU 672. Improving the Teaching of Mathematics in the Elementary School. **Three hours.** I.
Designed to help the experienced teacher and graduate student understand more fully trends, issues, and concepts involved in initiating or continuing a modern elementary mathematics program. The influence of research findings on the curriculum will be examined. Emphasis will be given to the teaching of mathematics using a variety of multi-sensory materials.

EDU 673. Developmental Reading in the Elementary School. **Three hours.** I.
Advanced study of methods, materials, and organizational procedures appropriate for the teaching of developmental reading in the elementary school.

EDU 674. Improvement of Language Arts Instruction in the Elementary School. **Three hours.** A.
Examination of current trends and curriculum problems relating to the teaching of language arts in the elementary school. Major emphasis is on listening, oral and written expression, spelling and handwriting. Attention is not given to the teaching of reading.

EDU 675. (Formerly EDU 575.) Diagnosis of Reading Problems. **Three hours.** I.
Prerequisite: EDU 354 or its equivalent.
Theory and interpretation of diagnostic procedures necessary for the appraisal of reading problems.

EDU 680. (Formerly EDU 580.) Organization and Supervision of Student Teaching. **Three hours.** I.
Prerequisite: Teaching Experience.
For school and college personnel concerned with improving student teaching experiences.

EDU 681. (Formerly EDU 581.) Leadership in Child Study. **Two hours.** A.
Prerequisite: Masters degree or permission of Chairman of the Department of Education.
Designed for those who expect to assume leadership roles in helping teachers understand the behavior of pupils. Both extensive and intensive attention is given to methods of observation, the keeping of anecdotal records, selection of data, home visitation and interpretation.

EDU 682. (Formerly EDU 582.) Inter-Institutional Seminar in Child Development. **Three hours.** A.

For graduate students who are interested in current research in child development. The daily, all-day program generally held for two weeks in the summer includes lectures, films, large and small group discussions, and committee assignments. Emphasis is placed upon the study of current research and writing which can be published in the Seminar's annual publication. Registration by permission from Chairman of the Department of Education.

EDU 683. (Formerly 583.) Analysis of Recent Research in Human Development. **Three hours.** A.

Prerequisite: EDU 615.

Designed for graduate students who are interested in current efforts to learn more about the behavior of children, and to find ways of utilizing this knowledge in the educative process. Experiences consist of individual and group research into current and recent exploration and study of factors and processes which affect the development and learning of children. Evaluation of this research is through critical group discussion in seminar-like atmosphere.

EDU 685. (Formerly EDU 585.) Seminar: Problems in the Supervision of Student Teaching. **Three hours.** A.

Prerequisite: EDU 680 and prior or current experience with student teachers.

Designed to provide opportunity for school and college personnel to explore in depth problems and procedures relating to the supervision of student teaching. Direct experience will be an aspect of the critical study of individual and group problems.

EDU 690. College Teaching. **Three hours.** II.

Designed for students who are teaching or who expect to teach in junior or senior colleges. Critical exploration of the major decisions to be made by the college teacher in the changing scene in higher education. Attention will be given to knowing students as individuals and class groups, planning college courses, practical problems of selecting and guiding learning experiences, using varied instructional media, evaluating student progress.

Eastern Kentucky University participates in a cooperative program with Merrill-Palmer Institute of Human Development and Family Life, Detroit, Michigan, for selected second semester junior students in Elementary Education.

This program, which includes students from all parts of the world, focuses on the multi-disciplinary approach to the study of human development and behavior. Theoretical study is given added depth through laboratory experiences and practicum teaching.

Students selected for this program reside at Merrill-Palmer Institute for one semester. A tuition fee and room and board charge are paid to the Institute. Credits earned at the Institute may be transferred to a degree program at Eastern with prior approval of the student's advisor, department chairman, and the Registrar.

Elementary Education students who are interested in this cooperative program should contact the Chairman of the Department of Education.

READING CENTER

The Reading Center of the Department of Education offers special services to children, college students, and other adults who wish to improve their reading abilities. Non-credit speed reading and study skills courses are offered each semester for a nominal fee. Included in this course are such emphases as skimming, scanning, vocabulary improvement and study skills necessary for college. Students who need more individual help may request diagnostic services prior to enrollment in reading improvement classes; a nominal fee is charged for complete reading diagnosis.

Additional information concerning registration for classes or requests for services may be obtained by contacting the Director, Reading Center, Bert Combs Building, Room 406, Eastern Kentucky University.

HEALTH, PHYSICAL EDUCATION, RECREATION AND ATHLETICS

Ned L. Warren, Chairman; Adams; Baechtold; Combs; Darling; Deck; Francis; Gentry; B. Groves; Harville; Hissom; Hood; Huffstetler; Hughes; Ison; Jinks; Johnson; Kidd; Kirkpatrick; McCammon; McChesney; Maupin; T. D. Myers; Phillips; Polvino; Presnell; Shannon; C. Smith; Sorochan; Strong; Summa; Uhlir; and Ulrich.

HEALTH (HEA)

Curriculum for a school health major. (Teaching).*

Required: HEA 202, 300, 315, 325. 375, 380, 424, 446, 464, 487, HEC 310, and BIO 378 (24 hours)

Electives: HEA 316, 365, PHE 320, 325, TRS 585, 586, BIO 273 (0-6 hours as required to complete a 48-hour specialization)

*Minor restricted to Physical Education or Biology

Curriculum for a minor in school health. (Teaching).

Required: HEA 202, 315, 375, 380, 487, HEC 310 (13 hours)
Electives: HEA 300, 325, 365, 424, 446, 464, BIO 378 (5 hours)

HEA 202. (Formerly HEA 20) Safety and First Aid. **Two hours.** I, II.
Designed to prepare the student to meet emergencies in the school room, on the playground, on the athletic field, and in everyday life. The Standard Red Cross Certificate is awarded. Safety instruction is also included.

HEA 300. Introduction to Health Professions. **Two hours.** I, II.
Special emphasis placed on history of public and school health, principles and concepts of health, relationships between health, wellness, aging, infections and disease, biostatistics, and attainment of a realistic philosophy of health.

HEA 315. Community Health Problems. **Two hours.** I, II.
Study of local, state, national, and international hydemiological problems with emphasis placed on the epidemiology and prevention of communicable and chronic diseases as well as insanitary factors in man's environment that are deleterious to his well-being.

HEA 316. Administration of Public Health. **Two hours.** II.
Prerequisite: HEA 315.
Planning and organizing the public health program, selection of personnel and materials, directing and evaluating public health services at county, state, and federal levels. Ways of influencing public opinion and behavior, and organization of health councils considered.

HEA 325. Safety Education. **Two hours.** I, II.
Emphasizes the cost and trends of accidents in home, industry, traffic, farms, and during recreational activity. Considers personal activities and practices. The needs of students as they pertain to safety education will be covered.

HEA 365. Elementary School Health Education. **Two hours.** I.
Study of the characteristics and health needs of elementary students. A health education curriculum for grade 1-6 is developed.

HEA 375. Family Health Education. **Two hours.** I, II.
Emphasizes those areas where knowledge and adjustment are crucial for a happy marriage—dating, courtship, and mate selection, finances, child rearing, sex, reproductive process, religion, and interpersonal relations with other family members.

HEA 380. Mental Health Education. **Two hours.** I, II.
A study of basic needs for mental health educational programs. Emphasis on curriculum content and teaching aspects of mental health.

HEA 410. Care and Prevention of Athletic Injuries. **Two hours.** I.
Problems of athletic injuries as they concern the coach. Discussion, demonstration, and practical experiences in the care and prevention of athletic injuries.

HEA 424. Healthful School Environment. **Two hours.** II.
A study of the environmental safety problems of a school. Students will develop a comprehensive evaluation criteria for the evaluation of school facilities and grounds. A handbook of school safety regulations will also be prepared.

HEA 446. School Health Screening Services. **Two hours.** II.
A study of the need for school health screening services. Students will develop ability to screen students in the following areas: height, weight, posture, vision, hearing, and nutrition. Students will develop a proposal for a comprehensive school health services program.

HEA 464. Administration and Supervision of School Health. **Two hours.** I.
A study of the organization of the school health program. Principles of supervision and administration in school health will be studied.

HEA 487. Secondary School Health Education. **Three hours.** I, II.
Study of the characteristics and health needs of secondary students. A health education curriculum for grades 7-12 is developed.

HEA 588. Workshop in School Health Services. **Three hours.** A.
Study of school health services, and the relationship to the total health and school program. Detailed study in theory, evaluation techniques, and follow-up procedures in the health screening program.

HEA 597. Workshop in Health Instruction. **Three hours.** A.
Consideration of health problems, and health materials, and development of a curriculum guide for health instruction in grades 1-12.

SCHOOL HEALTH

First Year

First Semester	Hours
GSE 101	3
GSP 180	1
MIL 101 or elective	2
Suggested general education options:	
GSC 162	3
GSS 142	3
Suggested general elective:	
Humanities elective	3
	15

Second Semester	Hours
General education humanities elective	3
GSC 162, 170, or 176	3
GSE 102	3
GSP 181	1
GSS 142 or 144	3
HEA 202	2
MIL 102 or elective	2
	17

Second Year

First Semester	Hours	Second Semester	Hours
EDU 202 or PSY 211	3	EDU 202 or PSY 211	3
ENG 211	3	ENG 212	3
GSC 170 or 176	3	BIO 301 and 378	4
GSP 281* or general education elective	3	GSS 247	3
GSS 246	3	HEA 300	2
MIL 201 or elective	2	MIL 202 or elective	2
	17		17

*GSP 281 must be taken while the student is in Central University College.

Third Year

First Semester	Hours	Second Semester	Hours
EDU 317	4	HEA 375	2
HEA 315	2	HEA 380	2
HEA 325	2	HEC 310	2
Electives: Minor	8	Electives: Minor	10
	16		16

Fourth Year

First Semester	Hours	Second Semester	Hours
HEA 424	2	EDU 364	4
HEA 446	2	EDU 463	10
HEA 464	2	PHE 466	3
HEA 487	3		
Electives: Restricted	6		
General education elective if needed	3		
	18		17

PHYSICAL EDUCATION (PHE)—MEN

Men may take an area in Health, Physical Education and Recreation with the right of teaching certificates by taking a minimum of 48 semester hours in these fields.

A minimum of 31 semester hours will be required for a major in Physical Education with the right of a teaching certificate.

A minor in Physical Education will require 18 semester hours.

Area students and those taking a major in Physical Education will be required to take GSC 162, BIO 301 and BIO 378.

Curriculum for an area in Health, Physical Education and Recreation (teaching)—Men.

PHE 125, 215, 216, 300, 320, 322*, 325, 326, 367, 368, 400, 466, 562, 568, 575 4 hours elective PHE 261, 360, 362, 420. HEA 202, 315, 410, 380, 487. REC 201, 501.

Curriculum for a major in Physical Education (teaching and non-teaching)—Men.**

PHE 125, 215, 216, 300, 320, 322*, 325, 326, 367, 368, 400, 466, 562, 568, 575; 4 hours elective from PHE 261, 360, 362 and 420.

*This course (PHE 322) and EDU 541 is required only for those students desiring both elementary and secondary certification.

**Male student majors in Physical Education desiring an emphasis in corrective therapy will be required to spend ½ of their practice teaching experience in clinical affiliation with the Veterans Administration Hospital in Lexington.

PHE 466 not required for non-teaching.

Curriculum for a second major in Physical Education (teaching and non-teaching)—Men.

PHE 125, 215, 216, 300, 322, 326, 367, 368, 400, 568, 575; 4 hours elective from PHE 261, 360, 362, and 420.

Curriculum for a minor in Physical Education (teaching and non-teaching)—Men.

PHE 125, 215, 216, 300, 322, 367, 368, 568; 6 hours elective from PHE 261, 360, 362, 400, 420, and 575.

The Division of Health, Physical Education, Recreation and Athletics, in cooperation with the Graduate School and the College of Education, offers an emphasis in Physical Education (Men and Women) applying toward the M.A. degree in Education.

The regulations for the M.A. degree in Education program may be found in the College of Education section of the **Graduate Bulletin.**

PHYSICAL EDUCATION (PHE)—MEN

Curriculum for an area in Health, Physical Education and Recreation (Teaching)—Men. The first two years of this curriculum may be found in the Central University College Section.

Third Year

First Semester	Hours	Second Semester	Hours
EDU 317	4	HEA 380	2
HEA 410	2	PHE 320	2
HEA 315	2	PHE 322* or Gen. Ed. Requirement, or elective	2–3
PHE 300	2	PHE 326	3
PHE 325	2	PHE 368	1
PHE 367	1	REC 201	3
General Education Requirement	3	PHE 400	3
	16		16-17

Fourth Year

First Semester	Hours	Second Semester	Hours
EDU 541* or elective	3	EDU 364	4
HEA 487	3	PHE 466	3
PHE 562	2	EDU 463	10
REC 501	3		
PHE 568	2		
PHE 575	3		
Elective Coaching	2		
	18		17

*These courses (PHE 322 and EDU 541) are required only for those students desiring both elementary and secondary certification.

PHYSICAL EDUCATION (PHE)—MEN

Curriculum for a major in Physical Education (teaching and non-teaching)—Men. The first two years of this curriculum may be found in the Central University College Section.

Third Year

First Semester	Hours	Second Semester	Hours
EDU 317	4	PHE 320	2
PHE 300	2	PHE 322* or Gen. Ed. Requirement, or elective	2-3
PHE 325	2	PHE 326	3
PHE 367	1	PHE 368	1
Elective Coaching	2	Elective	9
General Education Requirement	3		
Elective	2		
	16		17-18

Fourth Year

First Semester	Hours	Second Semester	Hours
EDU 541* or elective	3	EDU 364	4
PHE 568	2	PHE 466	3
PHE 575	3	EDU 463	10
Elective Coaching	2		
PHE 562	2		
Elective	4		
	16		17

*These courses (PHE 322 and EDU 541) are required only for those students desiring both elementary and secondary certification.

PHYSICAL EDUCATION (PHE)—WOMEN

A woman may major in Physical Education with right of teaching certificate by taking a minimum of 36 semester hours. She may take an area in Health, Physical Education and Recreation with right of teaching certificate by taking a minimum of 52 semester hours in these three disciplines. These hours must be taken as prescribed by the courses listed following the curricular blocks for these majors. Both the major and the area require a student to complete GSC 162, BIO 301, and BIO 378 as a part of their General Education science requirement.

A woman may minor in Physical Education by taking a minimum of 20 semester hours.

Curriculum for an Area in Health, Physical Education and Recreation (teaching)—Women.

PHE 125, 207, 208, 300, 310, 311, 320, 322, 325, 326, 341, 345, 354, 365, 380, 381, 466, 510, 562, 568, 575.

REC 201, 310, 402.

HEA 202, 375, 380.

Curriculum for a first or second major in Physical Education (teaching and non-teaching)—Women.

PHE 125, 207, 208, 300, 310, 311, 320, 322, 325, 326, 341, 345, 354, 365, 380, 381, 466, 510, 568, 575.

PHE 466 not required for non-teaching or second majors.

Curriculum for a minor in Physical Education (teaching and non-teaching)—Women.

PHE 125, 207, 208, 300, 310, 311, 341, or 365, 345, 510, 575.

PHYSICAL EDUCATION (PHE)—WOMEN

Curriculum for an area in Health, Physical Education and Recreation (teaching)—Women. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
EDU 317	4	HEA 380	2
HEA 375	2	PHE 310 or 311	2
PHE 310 or 311	2	PHE 320 or 325	2
PHE 320 or 325	2	PHE 322 or 345	2
PHE 322 or 345	2	PHE 326	3
PHE 341 or 365	1	PHE 341 or 365	1
PHE 380	1	PHE 381	1
REC 402	2	REC 310	3
	16		16

Fourth Year

First Semester	Hours	Second Semester	Hours
EDU 541	3	EDU 364	4
PHE 354	2	EDU 463	10
PHE 510	2	PHE 466	3
PHE 562	2		
PHE 568	2		
PHE 575	3		
	14		17

PHYSICAL EDUCATION (PHE)—WOMEN

Curriculum for a first or second major in Physical Education (teaching and non-teaching—Women. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
EDU 317	4	PHE 310 or 311	2
PHE 310 or 311	2	PHE 320 or 325	2
PHE 320 or 325	2	PHE 322 or 345	2
PHE 322 or 345	2	PHE 326	3
PHE 341 or 365	1	PHE 341 or 365	1
PHE 380	1	PHE 381	1
Minor elective	4	Minor elective	5
	16		16

Fourth Year

First Semester	Hours	Second Semester	Hours
EDU 541	3	EDU 364	4
PHE 354	2	EDU 463	10
PHE 510	2	PHE 466	3
PHE 568	2		
PHE 575	3		
Minor elective	4		
	16		17

PHE 125. Introduction to Physical Education. **Two hours.** I, II.
Orientation to the profession. Includes philosophy, aim, objectives, scope, interdisciplinary bases, current problems, professional leadership, publication, and career opportunities.

PHE 207. Field Hockey, Soccer and Volleyball for Women. **Two hours.** I.
Rules, basic skills, strategy, and teaching techniques related to field hockey, soccer and volleyball for women.

PHE 208. Basketball, Softball, Track and Field for Women. **Two hours.** II.
Rules, basic skills, strategy and teaching techniques related to basketball, softball, track and field for women.

PHE 215. (Formerly PHE 190.) Skills and Physical Education Activities (Men). **Two hours.** I, II.
Study and practice of various skills required for participation in a variety of individual and team sports.

PHE 216. (Formerly PHE 190.) Skills in Physical Education Activities (Men). **Two hours.** I, II.
Continuation of Physical Education 215.

PHE 261. (Formerly PHE 24 and 265.) Coaching Baseball. **Two hours.** I, II.
Theory and practice in coaching the fundamentals of baseball; team offense and defense.

PHE 300. Social, Folk and Square Dance. **Two hours.** I, II.
Presentation of American and international folk dances, and American ballroom dances. Understanding of basic terms; interpretation and appreciation of customs, traditions, and origins of other peoples; and techniques of leading or directing social dance activities stressed.

PHE 310. Tennis, Badminton, and Recreational Sports for Women. **Two hours.** I, II.
Rules, skills, etiquette, strategy, and officiating relating to life-time sports with emphasis on tennis, badminton and selected recreational sports.

PHE 311. Bowling, Archery, and Golf for Women. **Two hours.** I, II.
Rules, skills, etiquette, and strategy relating to individual and dual sports with emphasis on bowling, archery, and golf.

PHE 320. Kinesiology. **Two hours.** I, II.
Prerequisites: BIO 301 and BIO 378.
Fundamentals of body mechanics; movements of the human body.

PHE 322. (Formerly PHE 220.) Physical Education in the Elementary School (Grades 1-6). **Two hours.** I, II.
Theory and practice in the conduct of physical education for children in the elementary grades. Four laboratory hours.

PHE 325. (Formerly PHE 32.) Physiology of Activity. **Two hours.** I, II.
Prerequisites: BIO 301 and BIO 378.
Effects of physical education activities on various systems of the human body.

PHE 326. (Formerly PHE 126.) History and Principles of Physical Education. **Three hours.** I, II.
Prerequisites: GSS 246 and GSS 247.
Designed to develop understanding of the principles of a good physical education program Contributions of historical programs to present day programs studied and evaluated.

PHE 340. Advanced Swimming and Water Leadership. **Two hours.** II.
Prerequisite: GSP 180 (Swimming) or equivalent. Waived if student can pass skill test.

Emphasizes advanced skills and water safety, proper conduct of competitive swimming meets, pool management, lifeguarding and pool filtration. Red Cross Instructors (WSI) rating given at completion.

PHE 341. Aquatic Art. **One hour.** I, II.
Prerequisite: GSP 180 or 181 (Swimming) or permission of the instructor.
Fundamental swimming strokes, life saving techniques, synchronized swimming, water stunts and water ballet.

PHE 345. (Formerly PHE 245.) Fundamentals of Creative Movement. **Two hours.** I, II.
Introduction to modern dance and fundamentals of movement and rhythm.

PHE 354. Modern Dance Technique and Choreography. **Two hours.** I, II.
Prerequisite: PHE 345.
Modern dance technique, improvisation choreography and production.

PHE 360. (Formerly PHE 37 and 260.) Coaching Basketball. **Two hours.** I II.
Theory and practice in coaching the fundamentals of basketball; team offense and defense.

PHE 362. (Formerly PHE 39 and 265.) Coaching Track and Field. **Two hours.** II.
Theory and practice in coaching fundamentals involved in track and field.

PHE 365. Gymnastics for Women. **One hour.** I, II.
Fundamentals of stunts and tumbling with instruction in correlating floor work with appropriate gymnastics apparatus including asymmetric parallel bars, balance beam, side horse vault, and trampoline.

PHE 367. Basic Tumbling and Apparatus Activities. **One hour.** I, II.
Exercises and stunts upon the horizonal bar, parallel bars, trampoline, long horse, and horse with pommels for the prospective tumbling, and apparatus teacher. Safety methods, squad procedures, and pupil leadership stressed.

PHE 368. Advanced Tumbling and Apparatus Activities. **One hour.** I, II.
Continuation of PHE 367 with emphasis on series exercises on the mats, trampoline, parallel bars, horse with pommels, and horizontal bar.

PHE 380. Officiating Team Sports I (Women). **One hour.** I.
Prerequisite: PHE 207.
Techniques and skills of officiating, structure of officiating within girl's and women's sports, and relationship between performance, behavior, and the official's duties with emphasis on officiating soccer, field hockey, and volleyball.

PHE 381. Officiating Team Sports II (Women). **One hour.** II.
Prerequisite: PHE 208.
Continuation of PHE 380 with emphasis on techniques and skills of officiating basketball, softball, and track and field.

PHE 400. Organization of School Recreation Activities. **Three hours.** I, II.
Problems related to directing recreational activities within a school system. Two hours of laboratory assigned each student.

PHE 420. (Formerly PHE 42 and 260.) Coaching Football. **Two hours.** I, II.
Theory and practice in coaching the fundamentals of football; team offense and defense.

PHE 466. (Formerly PHE 366.) Curriculum and Methods for Teaching Physical Education. **Three hours.** I, II.
Theories of play; study of existing play programs; correlation with other subjects: games skills, lesson planning and observation.

PHE 510. (Formerly PHE 410.) Non-Class Curricular Physical Education Activities for Women. **Two hours.** I, II.
Policies, principles and philosophy of participation in physical education programs for women. Attention given to intramurals, extramurals, sports days, play days, girls athletic and recreation associations, psychology of coaching women's sports, and administration of women's sports program.

PHE 562. Physical Education for the Atypical Child. **Two hours.** I, II.
Prerequisite: PHE 320 and 325.

Emphasis on conditions producing atypical children; classification of atypical cases; purposeful physical education activities for atypical children; and application of adaptive physical education activities.

PHE 568. (Formerly PHE 46 and 468.) Administration and Organization of Physical Education. **Two hours.** I, II.

Policies and procedures of administration on the elementary and secondary school level. Emphasis on construction and care of facilities, equipment, and supervision of personnel.

PHE 575. (Formerly HEA 475 and PHE 475.) Tests and measurements in Physical Education **Three hours.** I, II.

Administration and scoring of tests; evaluation and use of results obtained.

PHE 590. Workshop in Physical Education. **One to four hours.** A. (This course may be repeated but credit will not be awarded for two workshops by the same sub-title.)

Identification and study of significant problems, teaching methods, research findings, evaluation techniques and the use of appropriate demonstrations and participation important to the improvement of teaching.

PHE 596. (Formerly PHE 496.) Workshop for Elementary Teachers in Physical Education Activities. **Three hours.** A.

Comprehensive review of techniques used in teaching physical education in the elementary grades. Emphasis placed on health evaluation, fitness testing, rhythmical activities, and game activities, tumbling and self-testing activities.

PHE 598. (Formerly PHE 498.) Athletic Coaching Workshop. **Three hours.** A.

Review of fundamentals in coaching basketball, football, baseball and track and field on both secondary and college levels. Includes lectures and demonstrations on offensive and defensive techniques.

PHE 599. (Formerly PHE 499.) Implementing Physical Fitness. **Three hours.** A.

Designed to assist physical education teachers in acquiring further competency in conduct of fitness activities in a typical elementary and secondary school situation. Emphasis placed on review of fundamentals of testing, interpretation, and program planning.

GRADUATE COURSES

PHE 649. (Formerly PHE 549.) Advanced Study in History, Principles, and Modern Trends in Physical Education. **Three hours.** I.

Review of history and principles and their application to new trends in this field. Research project required.

PHE 650. (Formerly PHE 550.) Curriculum Designs in Physical Education. Three hours. I.

Problems relating to design of programs in physical education. Curriculum project developed by each student.

PHE 651. (Formerly PHE 551.) Equipment and Facilities in Physical Education. **Two hours.** II.

Problems relating to the programming of equipment and facilities. Visits to and evaluation of surrounding facilities.

PHE 662. (Formerly PHE 562.) Adapted Physical Education. **Three hours.** II.

Basic principles of a good adapted program for handicapped students. Project will be required of each student.

PHE 669. (Formerly PHE 569.) Organization and Administration of Athletics. **Three hours.** A.

Administrative problems of high school and college athletics. Considers staff, program, budget, safety, insurance, facilities, and other phases of administration.

PHE 675. Seminar in Physical Education. **Three hours.** A.

A course designed for research and discussion of critical questions in physical education. Issues to be selected will vary according to the concerns of seminar students.

PHE 680. (Formerly PHE 580.) Interpretation of Data in Physical Education. **Three hours. II.**

Statistical interpretation of physical education data. Written reports using statistics required.

PHE 691. (Formerly PHE 591.) Independent Problems in Physical Education. **Three hours. I.**

Each student will solve a problem relating to his profession. The solution will be accomplished by using proper research techniques and through scheduled conferences.

RECREATION (REC)

This program is designed to develop competences needed for Recreation Administration. It focuses upon planning, conducting, and administering recreation programs in a variety of settings.

The four-year curriculum includes both non-credit and credit laboratory experiences and a minimum requirement of 128 semester hours of credit.

In the first two years, the student becomes oriented to the profession. The last two years concentrate on theory, skills, management, and field experience.

Prior to the junior year, the student's progress will be evaluated. During the junior and senior years, provision is made to learn additional skills. techniques and knowledge essential to leadership in recreation administration. The final semester stresses program planning, advanced leadership techniques, and required field experience in recreation.

Each student is strongly recommended to seek summer employment in a recreation agency.

Curriculum for a major in Recreation Administration (non-teaching). The first two years of this curriculum may be found in the Central University College section.

Curriculum for a major in Recreation.

REC 100, 102, 201, 310, 402, 403, 463, 464, 466, 501; PHE 215 & 216, (women 207 & 208), 300, 322, 340, 400; and HEA 202.

GENERAL STUDIES 101, 102, 142, 162, 180, 181, 211, 212, 246, 247, 281; POL 101, 320; GLY 108. 210; ART 200; MUS 271; MIL 101, 102, 201, 202; PSY 211; IED 326; SPE 100, 300; and Electives (men) 10 hours; Electives (women) 18 hours.

Curriculum for a minor in Recreation.

REC 100, 102, 201, 310, 402; and 6 hours Elective from PHE 215, 216, (207 & 208 women), 300, 322, 340, 400, (410 women), IED 326, DRA 100.

Third Year

First Semester	Hours	Second Semester	Hours
PSY 211	3	POL 320	3
IED 326	3	PHE 322	2
PHE 300 or PHE 216 (men) or PHE 208 (women)	2	PHE 340	2
REC 310	3	SPE 100	3
ART 200, MUS 271, or elective	3	REC 403	3
REC 201 or elective	2	PHE 300 or elective	3
	16		16

Fourth Year

First Semester	Hours	Second Semester	Hours
SPE 300	3	REC 463	10
PHE 400	3	REC 464	2
REC 402	2	REC 466	3
REC 501	3		
General Education requirement or elective	3		
Elective	2		
	16		15

RECREATION (REC)

Associate of Arts Degree in Recreation Supervision

A terminal two year Associate of Arts Degree in Recreation Supervision has been developed to fill a need for trained recreation leaders. Students completing the requirements will be qualified to accept a variety of recreation positions. If at the end of two years they desire to continue their college education, they may enter the four-year program.

The curriculum is a planned two-year program that includes non-credit laboratory experiences with a minimum of 64 semester hours of credit.

During the first year the student takes general education, orientation, and skill courses. In the second year he continues with skill courses, plus courses designed to introduce him to supervision and program planning. Three semesters of non-credit field experience is required.

Each student is strongly recommended to seek summer employment in a recreation agency.

Recommended curriculum for a major in Recreation, Associate of Arts Degree.

REC 100, 102, 201, 310, 402, 403; PHE 215 & 216 (women 207 & 208), 300, 322, 340; and HEA 202.

GENERAL STUDIES 101, 102, 142, 161, 180, 181; MIL 101, 102, 201, 202; SPE 100; IED 326; PSY 211; and electives (men) 6 hours; (women) 14 hours.

ASSOCIATE OF ARTS DEGREE

Major in Recreation Supervision
Two Year Curriculum

First Year

First Semester	Hours	Second Semester	Hours
GSE 101	3	GSC 161, 162, or GLY 108	3
GSP 180	1	GSE 102	3
GSS 142 or POL 101	3	GSP 181	1
MIL 101 or elective	2	MIL 102 or elective	2
PHE 215 (men) or PHE 207 (women)	2	PHE 216 (men) or PHE 208 (women)	2
REC 100	2	REC 102	2
SPE 100	3	REC 201	3
	16		16

Second Year

First Semester	Hours	Second Semester	Hours
HEA 202	2	MIL 202 or elective	2
IED 326	3	PHE 300	2
MIL 201 or elective	2	PHE 322	2
PHE 402	2	PHE 340	2
REC 310	3	PSY 211	3
Electives	4	REC 403	3
		Electives	2
	16		16

RECREATION (REC)

REC 100. Introduction to Recreation. **Two hours.** I.

Designed to introduce the beginning student to the recreation profession. Nature of recreation and the individual, influence of leisure, discussion of recreation philosophy, employment possibilities.

REC 102. Recreation Leadership. **Two hours.** II.

Techniques of leadership in working with individuals and groups in various recreation settings. Guidance and supervision of paid and voluntary leadership.

REC 201. (Formerly PHE 370.) Camping and Outdoor Recreation. **Three hours.** I, II.

Leadership aspects of the modern camp. Camp counseling, field experience in the camp setting. Nature studies, techniques of conducting groups in outdoor settings. One weekend campout required.

REC 310. Community Centers and Recreation Parks. **Three hours.** I.

Comprehensive study of facilities, equipment, leadership techniques. Program and community relations in community centers, and playground settings. Visits to observe programs in action.

REC 402. Social Recreation. **Two hours.** I, II.

Various techniques of organizing individuals and groups for social activities. Practical work will be presented and required.

REC 403. Private and Voluntary Agency Recreation. **Three hours.** II.

Comprehensive course in recreation programs used by various recreation agencies. Visits to observe programs in action. Representatives of these agencies will lecture.

REC 463. Professional Field Experiences. **Ten hours.** I, II.

Students serve ten weeks in a recreation agency under a qualified supervisor.

REC 464. Advanced Leadership Techniques. **Two hours.** I, II.

Designed to review the leadership techniques used during field experiences. Students will demonstrate their leadership abilities with groups and individuals.

REC 466. The Recreation Program. **Three hours.** I, II.

Comprehensive course in recreation programs used by various recreation agencies. Students will plan a program for one year to be used in a particular recreation setting.

REC 501. Recreation and Park Administration. **Three hours.** I, II.

Community organization, administrative practices, legal aspects, principles of programming, recruiting, selecting leaders, personnel practice, and public relations.

LABORATORY SCHOOL

Helen Reed, Director; Barton; R. Chrisman; Cornelison; Cox; Creech; D. Deane; R. Foust; A. Francis; Frye; S. Gibson; P. Groves; S. Hayes; G. Hays; R. Higginbotham; Hoffman; Hollin; C. Hurley; Ingram; Kearns; L. Kelly; P. Lane; Lillard; McCann; McKay; Metcalf; Ragland; Rankin; Safriet; Siekman; D. Smith; E. Smith; Sword; R. Warren; Whitlock; Wickersham.

The Laboratory School is an integral part of the total teacher education program at Eastern. Three of its major purposes are (1) to provide a quality program of instruction for its own students; (2) to serve as a center for professional laboratory experiences for prospective and in-service teachers; and (3) to provide opportunities for experimental programs. Closed-circuit television connects the Laboratory School with the Bert Combs Building where classes in professional education are taught.

The Laboratory School enrolls approximately 700 students with a staff of thirty-eight full-time faculty members. It is located in the Donovan Building which was first occupied in 1961. The finest and most recent innovations of school architecture have been incorporated in this splendid building.

Pupils who attend the Laboratory School come from the city and county in the surrounding community. The number of pupils for each grade is limited. Listed below are the tuition fees:

Nursery school and kindergarten	$72.00 per semester
Grades 1-12	$20.00 per semester

LIBRARY SCIENCE (LIB)

Juanita Phillips, Chairman; Hatfield; Lyons; Roser.

The major purposes of the Library Science program are to prepare school librarians and to provide a foundation for graduate study in the field of Librarianship. Students majoring in Library Science will be enrolled in the secondary education program and must have an approved second major on the secondary level. Students majoring in Elementary Education may minor in Library Science only.

Recommended Curriculum for a Major in Library Science (Teaching)

The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
LIB 301	3	LIB 501	3
LIB 500	3	LIB 521	3
EDU 317	4	LIB 551 or 563	3
ENG 212, 350, or 351	3	ENG 350, 351, or elective	3
GSS 248 or elective	3	General Math, or science or elective	3
	16		15

Fourth Year

LIB 531	3	LIB 541	4
LIB 569	3	EDU 462	4
EDU 574	3	EDU 463*	8
General Electives	7	Special Methods Course*	3
	16		19

*To be taken in the student's second major teaching field.

Note: Library Science majors desiring 12-grade certification in Librarianship should include EDU 354 (Reading in the Elementary School) and EDU 541 (Survey of Elementary Curricular Programs) in their programs.

Recommended Curriculum for a Second Major in Library Science (Teaching)

A student desiring a second major in Library Science must complete the following courses: LIB 300, 301, 500, 501, 521, 531, 541, 551 or 563, and 569.

Requirements for a Minor in Library Science (Teaching)
LIB 301, 500, 501, 521, 531, 541, and 563 or 569 ....22 semester hours

Note: The Certificate for the elementary school librarianship may be validated for the high school or twelve-grade librarianship upon the completion of the course Fundamentals of Secondary Education or a comparable course. The certificate for the high school librarianship may be validated for the elementary school or for twelve-grade librarianship upon completion of the courses Fundamentals of Elementary Education or a comparable course, and Teaching of Reading.

LIBRARY SCIENCE (LIB)

LIB 300. Libraries and Librarianship. **Three hours.** I.

Development of the library as a cultural, fundamental institution of society. School library objectives and standards; the librarian; classroom collections; county and regional library services; understanding of libraries and library work.

LIB 301. (Formerly ENG 360.) Children's Literature and Related Materials. **Three hours.** I. II.

Prerequisite: GSE 101 and 102; ENG 211 and 212.

For teachers and librarians planning to work with children. Emphasis on library materials to supplement school curriculum and encourage recreational reading grades 1-6. Stresses various types of materials for use by and with children; book selection; reading interests and needs.

LIB 500. (Formerly LIB 311, School Library Management.) Organization and Administration of the School Library. **Three hours.** I, II.

Prerequisite: Admission to the Teacher Education Program.

Philosophy, objectives, and administration of the library in the elementary and secondary schools.

LIB 501. (Formerly LIB 401.) Young People's Literature. **Three hours.** I, II.

For teachers and librarians planning to work with young people. Emphasis placed on library materials to supplement school curriculum and encourage recreational reading in grades 7-12. Stresses reading interests, levels, and needs of young people, including types of adult materials suitable for more mature students and problems of selection.

LIB 521. (Formerly LIB 321.) Reference. **Three hours.** I, II.

Provides information for satisfactory use of library resources. Stresses essential reference work including dictionaries, encyclopedias, atlasses, yearbooks, periodical indexes, and the more important subject and trade bibliographies.

LIB 531. (Formerly LIB 331.) Classification and Cataloging. **Three hours.** I, II.

Fundamental principles and methods of classification and cataloging of books and related materials. Attention is centered on classification and cataloging of school library books.

Skill in typing is necessary.

LIB 541. (Formerly LIB 441.) School Library Practice. **Four hours.** I, II.

Prerequisite: LIB 301, 500, 521, and 531, and others except as may be taken at the same time as this course.

Library practice is designed to give the trainee practical experience in many phases of school library service including circulation routines, teaching children the use of reference materials, and assisting in the cataloging of new books and materials. Reading guidance, story telling, and the organization of unit materials are stressed.

LIB 551. Reading Interests and Advanced Book Selection. **Three hours.** A.

The role of reading in the educative process; reading habits and interests of groups and individuals; selection of readable materials. Methods of working with children and young adults in the school library; study in depth of titles suitable for children and young adults.

LIB 563. (Formerly LIB 463, Instructional Materials for the School Library.) Preparation of Instructional Media. **Three hours.** II.

Selection and preparation of free and inexpensive materials; displays (boards, bulletin, flannel, magnetic, chalk, posters); graphics (maps, graphs, charts, diagrams); and models.

LIB 569. (Formerly LIB 369, Audio-Visual Methods.) Instructional Media. **Three hours.** I, II.

Philosophy and techniques of the effective utilization of instructional media. Emphasis is on slides, tape and disc recordings, films, filmstrips, transparencies, programmed instruction, and the operation of equipment for presenting such media.

GRADUATE COURSES

LIB 607. (Formerly LIB 507.) Problems in Library Science. **One to three hours.** A.

Prerequisite: Approval of advisor and chairman of the Department of Library Science.

Designed for graduate students who wish to do independent work on a problem in Library Science, or who wish to enroll in a special workshop or seminar focusing on a particular topic.

LIB 609. History of Books. **Three hours.** A.

Considers the records of early man, invention of the alphabet, manuscript books, and the making of books from earliest times to the present. Acquaints the student with the techniques and standards for the appraisal of the physical book.

PROFESSIONAL LABORATORY EXPERIENCES
PREFIX: EDU

J. Dorland Coates, Chairman; Arterberry; Chisholm; Holcomb; Jennings; Sams.

EDU 460. (Formerly EDU 367.) Fundamentals of Elementary Education. **Six hours.** I, II.

Prerequisite: EDU 202 or 300, 317, 354, 360, and SCI 475 (see Supervised Student Teaching). Taken the same semester as EDU 463 for the first six weeks.

Functional and graduated approach to responsible teaching in the elementary school through study and discussion, directed observation and laboratory experiences involving the preparation of teaching materials, and other pre-student teaching experiences.

EDU 462. (Formerly EDU 364.) Fundamentals of Secondary Education. **Four or six hours.** I, II.

Prerequisite: EDU 202 or 300, and 317 (see Supervised Student Teaching). Taken the same semester as EDU 463 for the first six weeks.

Graduated approach to responsible classroom teaching through experiences in study and discussion, organizing materials, directed observation, laboratory work, and other pre-student teaching experiences.

EDU 463. Supervised Student Teaching. **Eight or ten hours.** I, II.

Prerequisite: EDU 460 for elementary education majors and EDU 462 for secondary education majors. Taken upon completion of EDU 460 and 462.

Observation, Participation, and responsible classroom teaching along with related professional activities.

EDU 463b. Laboratory Experiences in Elementary Education. **Eight hours.**
Prerequisite: EDU 460.
Designed to meet the needs of experienced teachers who have taught on a full-time basis for a period of three years on a legal certificate and who are qualified under the regulations of the State Board of Education to use this course as a substitute for any part or all of Student Teaching.

EDU 463k. Student Teaching in the Kindergarten. **Three hours.**
Prerequisite: EDU 460, 519, and 463.
Observation, participation, and supervised teaching in the kindergarten with other related professional activities.

EDU 463s. Laboratory Experiences in Secondary Education. **Eight hours.**
Prerequisite: EDU 462.
Designed to meet the needs of experienced teachers who have taught on a full-time basis for a period of three years on a legal certificate and who are qualified under the regulations of the State Board of Education to use this course as a substitute for any part or all of Student Teaching.

PSYCHOLOGY (PSY)

James A. Lee, Chairman; Ambrose; Curtin; Goodwin; Hearn; Murray; Parkhurst; Parsons; Rottersman; Seyfrit; Snowden.

The fundamental involvement of psychological factors in all areas of human endeavor requires that Departmental curricula serve several purposes. Uppermost among these are:

A. Acquainting the student with the content and methods of systematic psychology.
B. Preparing the prospective graduate student for advanced work in professional and scientific psychology and/or related areas.
C. Offering areas of selective emphasis of content as service courses for Minors and supporting preparation in other departmental curricula.

Prospective graduate students must take at least one year of Foreign Language; Russian, German or French is strongly recommended. Additional course work in Biology, Physics and Mathematics is recommended.

The Department of Psychology offers several different areas of special interest for students in terms of their plans for advanced study and/or professional application. These include general and systematic psychology, personality-social psychology, abnormal-clinical psychology, developmental psychology and educational psychology. Building a selective emphasis upon the core requirements should be begun with the help of the student's advisor during the Freshman year.

Curriculum for a major in Psychology (Non-teaching). The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
PSY 301	3	PSY 300	4
GSC Elective	3	PSY 302	3
PSY Elective	3	General Elective	6
General Elective	6	GSC Elective	3
	15		16

Fourth Year

First Semester	Hours	Second Semester	Hours
PSY Electives	6	PSY 499	3
General Electives	9	PSY Electives	3
		General Electives	9
	15		15

Recommended prerequisite options and departmental requirements (*) include the following:

(1) Six hours from GSC 162, BIO 141, 301

(2) MAT 107* and 3 hours from GSC 176, CHE 111

(3) Six hours from ANT 230, SOC 231, ANT 110, GSS 142, GSS 248

(4) Six hours of RUS, GER or FRE

(5) PSY 211*, 213*. 300*, 301*, 302*, 499*, plus eleven hours of upper division courses in psychology.

Curriculum for a Second Major in Psychology, (Teaching). Non-science First Major students pursuing a certification program should include ANT 110, SOC 231, and at least six hours in animal science or zoology, physics and/or physiology in their preparation.

Curriculum for a Minor in Psychology. Students majoring in another department will take PSY 211, 213, 301 and 498, plus six hours elective in Psychology.

Professional Preparation for Qualification as an Educational Therapist

Students pursuing teacher certification in a secondary education subject may elect a prescribed Minor in Psychology in order to meet requirements for work as an Educational Therapist.

Students would split their student teaching assignment into the following two parts.

a) 5 weeks of student teaching in their major area of preparation.

b) 5 weeks of clinical experience at the V. A. Hospital, Lexington (total of 250 clock hours.)

In this manner, students will meet State certification requirements for teaching and will also qualify as professional Education Therapist.

Prescribed courses for this Minor are: PSY 211, 213, 301, 308, 312 and 498. In addition, students will be expected to take a principles course in anthropology or sociology.

In addition to existing service courses at the graduate level, the Psychology Department will offer a Master of Science degree in Psychology to begin with the fall semester, 1968. Areas of emphasis are Clinical and School Psychology. In addition, the Department offers minor work for students taking graduate major work in other departments.

The Graduate School section in this catalogue describes general requirements for admission to the Graduate School. The Graduate Catalogue details the special program requirements for graduate major work in Psychology.

Prerequisite to admission to the graduate Psychology program is the completion of a minimum of five courses in Psychology, including General Psychology, Statistics and Experimental Psychology and two others acceptable to the Admissions Committee. Each program requires approximately two years of graduate preparation, including one full semester of internship experience. Prospective degree students should secure descriptive material from the Chairman, who will serve as advisor for the student until his committee is elected.

PSYCHOLOGY (PSY)

PSY 211. General Psychology. **Three hours.** I, II.
Prerequisite: Sophomore standing.
Introduction to foundation concepts in the various areas of psychology. Prerequisite to all other psychology courses.

PSY 212. Applied Psychology. **Three hours.** I. II.
Prerequisite: PSY 211.
Psychological Factors in occupational choices and their applications in such settings as advertising, industry, law, medicine and personnel work.

PSY 213. Statistical Applications in Psychology. **Three hours.** I, II.
Prerequisite: PSY 211 and MAT 107 or consent of department.
Introduction to descriptive and inferential statistics used in ordering and interpreting data in psychology and other behavioral sciences.

PSY 300. (Formerly PSY 400.) Learning. **Four hours.** I, II.
Prerequisite: PSY 211 and 213.
Experimental study of learning, transfer, and retention processes with an analysis of various kinds of learning. Three lecture and two laboratory hours.

PSY 301. (Formerly a part of PSY 213.) General Experimental Psychology. **Three hours.** I, II.
Prerequisite: PSY 213.
Introduction to techniques and problems of the experimental method in psychology. Representative experiments and methodologies in psychology are considered to acquaint student with research in contemporary psychology. Two lecture and two laboratory hours.

PSY 302. Tests and measurements. **Three hours.** I, II.
Prerequisite: PSY 211.
The principles of measurements with application to informal and standardized tests used in education, business, industry, and government. Problems of administration, scoring, and appraisal are considered.

PSY 308. Abnormal Psychology. **Three hours.** I, II.
Prerequisite: PSY 211.
A descriptive study of the nature, cause, classification and prevalence of abnormal behavior, with attention to intellectual, personality, cognitive, sensory and motor functions.

PSY 312. (Formerly PSY 310 and PSY 312.) Child Psychology. **Three hours,** I, II.
Prerequisite: PSY 211.
Developmental study of physical, mental, personality and social structure and functions from conception to adolescence, including reference to the importance of parents, home, school & community to this development.

PSY 314. Adolescent Psychology. **Three hours.** I, II.
Prerequisite: PSY 211.
The nature, sources & development of emotional, social, intellectual & personality patterns of behavior in adolescents.

PSY 315. Sensation and Perception. **Four hours.** I, II.
Prerequisite: PSY and 213.

Experimental study of sensation and perception, the sensory and cognitive processes by which man knows his world. Three lecture and two laboratory hours.

PSY 320. Educational Psychology. **Three hours.** I, II.
Prerequisite: PSY 211.

Theories and processes of learning, maturation, individual differences and their measurement, personality problems and statistical procedures. Includes a critical examination of dominant concepts and principles involved in learning theories.

PSY 401. Psychology of Personality. **Three hours.** I, II.
Prerequisite: PSY 211.

Basic approaches to the study of personality. Theory and fact upon which these approaches are related to various kinds of behavior patterns.

PSY 402. Industrial Psychology. **Three hours.** I, II.
Prerequisite: PSY 211.

Methods and principles of psychology as applied to business and industry. Emphasis is on employee selection, classification, training and evaluation.

PSY 498. Seminar in Psychology I. **Three hours.** I, II.
Prerequisite: Fifteen hours in psychology and consent of instructor.

Advanced study of the basic areas of psychological facts and theories; library research into the expression of these principles in selected areas of the student's major areas of study. Recommended for psychology minors only.

PSY 499. Seminar in Psychology II. **Three hours.** I, II.
Prerequisite: Nineteen hours in Psychology and consent of instructor.

Intensive treatment of fundamental phenomena in psychology, toward a synthesis of contemporary theoretical approaches to these problem areas. Recommended for psychology majors only.

PSY 500. Social Psychology. **Three hours.** I, II.
Prerequisite: PSY 211.

The behavior of individuals in relation to personality, social, and cultural systems.

PSY 504. Psychology of Individual Differences. **Three hours.** I, II.
Prerequisite: PSY 211 and 302.

Study and application of the facts of human variability, including differences in such areas as age, sex, class, intelligence and achievement.

PSY 507. Problems in Psychology. **One-Three hours.** A.
Prerequisite: PSY 211, 213, and approval of instructor.

Qualified students may outline and study a definite problem in some area of psychology for one, two or three hours of credit. Amount of credit depends on nature and extent of the problem studied. Results must be presented in a formal paper.

PSY 511. Psychology of the Exceptional Child. **Three hours.** I, II.
Prerequisite: PSY 211.

Psychological problems of children having superior or inferior intellectual ability. Includes examination of research studies, procedures, in identification of exceptional children, and assessment of their potentials and limitations. Social adjustment of such children is considered.

PSY 590. Survey of Clinical Psychology. **Three hours.** I.
Prerequisite: Consent of Instructor.

Introduction to clinical psychology including methods, professional role, ethical and legal aspects.

GRADUATE COURSES

PSY 601. (Formerly PSY 501.) Theories of Personality. **Three hours.** I.
Prerequisite: PSY 211 and 401 or consent of instructor.

Contrast and comparison of major theories. A synthesis of these theories is made by each individual, after which the inter-relationship between personality and environment is studied.

PSY 602. (Formerly PSY 502.) Counseling Psychology. **Three hours.** II.
Prerequisite: PSY 211 and 601.
A survey of counseling methods and concepts. Consideration of research findings and problems.

PSY 617. (Formerly EDU 517.) Individual Intelligence Testing. **Three hours.** II.
Prerequisite: PSY 211 and 302 (or equivalent) and consent of instructor.
Designed to build proficiency in administering and understanding individual intelligence tests. Includes study of purposes of individual intelligence tests, their make-up, and directions for administering. Each student is required to administer tests to several children or adolescents and to interpret test findings.

***PSY 620.** Statistics. **Three hours.** I.
Prerequisite: PSY 213.
Theory and practice in the analysis and interpretation of psychological measurements.

PSY 621. Proseminar I. **Two hours.** I.
Prerequisite: Consent of instructor.
Basic concepts, methods and current developments in selected areas of psychology.

PSY 622. (Formerly PSY 601.) Theories of Personality. **Three hours.** I, II.
Prerequisite: Consent of instructor.
Theories relating to structure, function and development of the individual to his dynamic behavior.

PSY 624. (Formerly PSY 617.) Individual Intelligence Testing. **Three hours.** I, II.
Prerequisite: Consent of instructor.
Theory, supporting evidence, and practice of individual measurement of intelligence, and communication skills.

PSY 625. Personality Assessment. **Two hours.** I.
Prerequisite: Consent of instructor.
History, theory, administration and interpretation of selected projective and non-projective personality tests.

PSY 626. Professional Concerns. **One hour.** I.
Prerequisite: Consent of instructor.
Consideration of ethical and related problems of psychologists.

PSY 640. Proseminar II. **Two hours.** II.
Prerequisite: PSY 621.
Continuation of Psychology 621.

PSY 641. Psychopathology and Abnormal Psychology. **Three hours.** II.
Prerequisite: PSY 622.
Description of symptoms and dynamics of psychological disorders with consideration of cause, development, modification and prevention.

PSY 642. Projective Techniques. I. **Three hours.** II.
Prerequisite: PSY 624.
History, theory, and rationale of projective techniques; administration and interpretation of the Thematic Apperception test; and some familiarity with the Rorschach Inkblot Test.

PSY 643. Practicum I: General. **Three hours.** II.
Prerequisite: PSY 624 and 642.
Supervised practice in individual intelligence tests and personality assessment.

PSY 644. Counseling and Psychotherapy. **Three hours.** II.
Prerequisite: PSY 641.
Survey of theories, principles and techniques with application to individuals and groups.

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*PSY 620-699 inclusive represents the approved offering for the M. S. programs in school and clinical psychology and will not be offered prior to the academic year, 1968-69.

PSY 660. Practicum II. Clinical Psychology. **Two hours.** A.
Prerequisite: PSY 643, 644, 661.
Supervised practice in counseling/Psychotherapy and advanced testing to include Rorschach Inkblot Test.

PSY 661. Projective Techniques II: Clinical Psychology. **Three hours.** I.
Prerequisite: PSY 641, 642.
A continuation of Rorschach theory, method, practice and interpretation.

PSY 662. Research I. **Two hours.** A.
A laboratory course devoted to instrumentation, formulation of problems and orientation to research methods.

PSY 663. Practicum II. School Psychology. **Two hours.** I.
Prerequisite: PSY 643, 644.
Supervised practice in counseling/psychotherapy and advanced testing.

PSY 680. Advanced Child and Exceptional Child. **Two hours.** I.
Prerequisite: PSY 622, 640.
Theoretical issues and practical problems in intellectual, social, perceptual, physical and personality development with implications for education and adjustment.

PSY 681. Principles of Learning and Motivation. **Three hours.** I.
Prerequisite: PSY 640.
Principles and supporting evidence in each area with emphasis on human application.

PSY 682. Social, Cultural and Family Dynamics. **Three hours.** A.
Prerequisite: PSY 622, 640.
Interaction of the individual with groups to include the effects of family structure and minority status.

PSY 683. Advanced Tests and Measurements. **Two hours.** I.
Prerequisite: PSY 620 or 621.
Selected survey and application of group and individual tests used in both school and clinical settings.

PSY 684. Practicum III: Clinical Psychology. **Five hours.** II.
Prerequisite: PSY 660.
Supervised clinical practice toward assuming full responsibility for psychological evaluations and psychotherapeutic procedures.

PSY 685. Practicum III. School Psychology. **Three hours.** I.
Prerequisite: PSY 663.
Supervised experience toward assuming full responsibility for case evaluations, presentations and therapeutic procedures.

PSY 686. Research II. **Two hours.** I.
Prerequisite: PSY 662.
The investigation of independent problems under staff supervision.

PSY 687. Independent Work in Psychology. **One-Three hours.** A.
Prerequisite: Consent of instructor.
Student responsibility for conceptualization and investigation of research problem and drawing formal conclusions.

PSY 699. Internship. **No Credit.** A.
Prerequisite: Consent of Student's committee.
Intensive supervised practice in approved setting.

EKU

Graduate School

GRADUATE SCHOOL

E. E. Moretz, Dean

DEGREES, PROGRAMS, AND REQUIREMENTS

The Graduate School, in cooperation with the College of Applied Arts and Technology, the College of Arts and Sciences, the College of Business, and the College of Education, offers the following degree programs:

College of Arts and Sciences

- Master of Arts Degree
  - English
  - Geography
  - History
- Master of Music Education Degree
- Master of Science Degree
  - Biology
  - Chemistry

College of Business

- Master of Business Administration Degree

College of Education

1. Master of Arts in Education—The College of Education offers the Master of Arts in Education Degree with emphasis in elementary education, counseling, library science, reading, and most teaching areas in secondary education.
2. Master of Arts Degree—Guidance and Counseling.
3. Master of Science Degree—Clinical or School Psychology.
4. A fifth year program for certificate renewal.
5. A sixth year program leading to Rank I certification.
6. A joint doctoral program with the University of Kentucky.

TYPES OF ADMISSION

Students who intend to pursue a particular graduate program should refer to the section of this **Catalogue** pertaining specifically to that program. The student should refer to the **Graduate Catalogue** for more complete program requirements and details. Students not intending to fulfill requirements of specific programs may be admitted to the Graduate School by meeting the requirements delineated in the section below entitled "General Admission Rquirements."

GENERAL ADMISSION REQUIREMENTS

1. A graduate of an accredited 4 year institution eligible to grant the Baccalaureate Degree.
2. Except when specified otherwise in the admission requirements of programs, an over-all undergraduate point standing of at least 2.4 (based on a 4.0). A limited number of students may be admitted in exception to this requirement when other evidence indicates a

capacity for graduate study which the undergraduate record does not reveal.

3. Complete data filed by the student in the office of the Graduate School, including two copies of the transcript of all college credits, both graduate and undergraduate. Failure to submit transcripts for any part of previous work may lead to disciplinary action.

GRADUATE RECORD EXAMINATION

All graduate students must submit, either at the time of application for admission or no later than the completion of the first session of graduate work, the scores of the aptitude section of the Graduate Record Examination. Certain programs require Advanced Graduate Record Examinations in the subject field in addition to the aptitude sections. The Graduate Record Examinations are administered at Eastern in October, April, and July. Application to take the Graduate Record Examination must be received in the office of the Educational Testing Service, Princeton, New Jersey, more than two weeks in advance of the testing date. Application forms are available in the office of the Dean of the Graduate School. It is the student's responsibility to apply for, to take the examination, and to have the scores sent to the Dean of the Graduate School at Eastern.

RESIDENCE REQUIREMENTS FOR DEGREES

1. The residence requirements shall be a minimum of 36 weeks or two semesters.
2. Twelve hours of graduate work earned on a part-time basis shall entitle the student to one semester (eighteen weeks) of residence. Resident credit for part-time study shall be 1½ weeks for each semester hour of credit and shall apply to students who carry less than 12 hours per semester or 6 hours per summer term. Special rules apply to intersession.
3. One-half the course requirements and one-half of the residence work shall be done as a full-time graduate student. A summer term of 8 weeks with a minimum load of 6 semester hours of credit shall be regarded as 9 weeks in residence and one semester with a minimum load of 12 hours shall be regarded as 18 weeks of residence.

GRADE POINT AVERAGE

Candidates for a Master's degree must have an average standing of at least 3.00 on a 4.00 scale. No credit shall be granted for a grade below C.

ADMISSION TO CANDIDACY

1. A graduate student must be admitted to candidacy by the Graduate Council before he is eligible for the Master's degree. At least 6 hours of graduate credit must be earned before admission to candidacy and at least 12 hours must be earned after admission to candidacy.
2. More detailed requirements for admission to candidacy are specified in the outlines of the degree programs listed in this **Catalogue** and the **Graduate Catalogue.**

EKU

Continuing Education

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Correspondence . 298
Extension . 299

DIVISION OF CONTINUING EDUCATION

LaRue Cocanougher, Dean

Institutions of higher education can no longer meet their full responsibilities by offering only the services provided by the traditional campus programs. In this age of rapid change in all areas of education, it has become essential that practitioners must either keep informed of the knowledge which is constantly being expanded or become obsolete. There are also many people who have not reached the desired level of education for the vocation in which they are now engaged or hope to pursue in the near future. In addition, increased leisure time for some groups offers opportunities for explorations of educational activities purely from an interest and diversified standpoint.

Due to job responsibilities, family responsibilities and other equally valid reasons, many people who desire additional educational opportunities find it impossible, or at least impractical, to become a part of the regular university program. Eastern Kentucky University's Division of Continuing Education attemps to meet their demand through extension classes, correspondence study, Saturday and evening classes, consultative service by staff and faculty, institutes, workshops, conferences, and other short term course offerings.

CORRESPONDENCE STUDY DEPARTMENT

Introduction

Eastern Kentucky University through its Division of Continuing Education, offers a number of regular college and high school correspondence courses as a means of study open to anyone who desires to continue their education in this manner. These courses may be taken on either a credit or non-credit basis.

Correspondence courses cover essentially the same material as the same or similar courses offered on campus. Students prepare assignments and submit them along with any questions they may have, to their instructor through the Continuing Education Office. The instructor then evaluates the work and returns the evaluation form with his comments and answers to any questions raised. This type of instruction offers an opportunity for the student to be taught on an individual basis. In essence he has a tutorial type of arrangement which defies distance.

Both high school and college courses are offered by correspondence. The college courses may be applied toward a bachelor's degree from Eastern Kentucky University or other institutions of higher education. These courses, with some exceptions, may also be used by teachers who desire to meet certification requirements. The high school courses may be applied toward a high school diploma. Correspondence courses may also be taken on a non-credit basis for other goals such as studying for professional advancement, exploring new interests, or learning new skills.

Fees and Enrollment Procedures

A. Instructional fees, which do not include costs of textbooks and other reference materials, are governed by the following regulations:

   1. All fees are payable in advance and are subject to change without advance notice to the student.
   2. Instructional fees for college courses are based upon the number of semester hours of credit given for the course. The fee, at present, is $10.00 per semester hour. For a two-semester hour course the fee is $20.00; for a three-semester hour course the fee is $30.00.
   3. The instructional fee for high school courses is $20.00 for each one-half unit.

B. Registration for a correspondence course includes the following procedures:

   1. Applicants are required to make a separate application for each course on registration forms furnished by the institution.
   2. College students are to use the four x six perforated **pink** registration card and high school students are to use the four x six **white** registration card.
   3. The registration form must be **completed in full** by using ink or typewriter. The applicant should check to make sure that the same information is given on the form for the Office of Continuing Education and the form for the Registrar's Office.
   4. **Send Both** completed registration forms together with the instruction fee to the Office of Continuing Education, Eastern Kentucky University, Richmond, Kentucky 40475. **Do Not Send Forms To The Registrar.**
   5. Do not fold or bend the registration card except where perforated.
   6. Additional registration forms can be obtained by writing to the Office of Continuing Education. Please state whether you desire to enroll for college or high school courses. The **Continuing Education Bulletin** which contains a listing of correspondence courses offered and regulations pertaining thereto, will also be sent upon request.

EXTENSION DEPARTMENT

Purposes and Objectives

Eastern Kentucky University strongly holds to the phiolosophy that there should be a close relationship with the homes, schools industry, community and civic groups of the state to the end that any citizen may feel free to call upon the University for any assistance which the institution may be able to render. The off-campus class program of Eastern is designed to serve students who are unable to enroll in residence or who find it more helpful to work in local groups on certain common problems. More specifically, off-campus class programs are designed to accomplish one or more of the following purposes:

1. To provide greater opportunity for teachers and prospective teachers to obtain credit in college-level courses.
2. To provide greater opportunities for those who want to increase their knowledge while regularly employed or improve their efficiency and skills either on credit or non-credit basis.
3. To assist communities to make effective use of the resources of the University.
4. To assist in acquainting the faculty of the various departments with the educational programs and needs facing the communities served by the University.

Request for Off-Campus Courses

Anyone who desires to do so may request an off-campus course if in his opinion there will be sufficient interest to justify offering the course. If a course is desired please contact the Office of Continuing Education, Eastern Kentucky University in order that procedures may be worked out for getting the course organized.

General Requirements

Students will be admitted to off-campus credit courses who satisfy all prerequisites for these courses in exactly the same manner as is required of residence students.

Students may be permitted to audit an off-campus course without credit by paying the minimum fee required.

A minimum of 15 weekly classroom sessions for a three-semester hour course shall be required with a minimum time for each classroom session of 180 minutes. For a two-hour course there must be at least 10 weekly classroom sessions of 180 minutes each. A classroom session is interpreted to mean where instructor and students are meeting in face-to-face instruction. Organizational meetings by the director and students are not to be considered.

The minimum charge for graduate and under-graduate work shall be $3.00 per hour more than the fee for part-time resident students.

Courses and Credit Limitations

Off-campus credit courses offered by Eastern are of various types. To a large extent, the nature of off-campus courses is determined by the needs of the local community. All courses offered are approved by the vicepresident for academic affairs and the dean of the college in which the course is listed. Courses requiring laboratories or extended library service are not offered off-campus.

A teacher employed on a full-time basis shall not be allowed to receive credit through off-campus courses and/or correspondence for more than a maximum of four semester hours each semester or eight semester hours during the regular school year of nine months.

Undergraduate students may apply a maximum of 32 semester hours by extension and/or correspondence toward a degree or certification.

Graduate students may apply a maximum of six semester hours of extension work toward an M.A. degree, fourteen hours toward completion of fifth year program and fifteen hours toward completion of sixth year program.

ADDITIONAL CONTINUING EDUCATION SERVICES

For information pertaining to Saturday and evening schedules, institutes, workshops, conferences, and consultative services by faculty and staff, please write the Office of Continuing Education, Eastern Kentucky University, Richmond, Kentucky 40475 or call 622-2001.

Official Directory

. . . .

Board of Regents . 305

Administration . 307

Faculty . 308

Administration Staff . 353

PART FIVE

BOARD OF REGENTS

1968-69

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ELMO E. MORETZ, B.S., M.A., Ed.D.	Dean, Graduate School
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G. M. BROCK	Comptroller
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LEONARD C. TAYLOR, A.B., M.A.	Registrar
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FACULTY

ROBERT R. MARTIN, A.B., A.M., Ed.D. **President**

A.B., Eastern Kentucky State College; A.M., University of Kentucky; Ed.D., Teachers College, Columbia University. At Eastern since 1960.

R. DEAN ACKER, B.A., M.Ed., Ed.D. **Director of Research**
Associate Professor of Education

B.A., College of Wooster; M.Ed., Ed.D., University of Florida. At Eastern since 1963.

JACK L. ADAMS, B.S., M.A. **Assistant Professor of**
Health and Physical Education
Tennis Coach

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1962.

***KERNEY M. ADAMS, A.B., A.M.** **Professor of History**

Diploma, Eastern Kentucky State Normal School; A.B., University of Kentucky; A.M., Cornell University; additional graduate work, Harvard University. At Eastern since 1928.

WILLIAM GIBSON ADAMS, B.A., M.A. **Assistant Professor of Geography**

B.A., Stetson University; M.A., University of Kentucky; additional graduate work at University of Kentucky. At Eastern since 1966.

AIMEE H. ALEXANDER, A.B., M.A. **Assistant Professor of English**

A.B., Transylvania College; M.A., University of Kentucky; additional graduate work, Columbia University, George Peabody College for Teachers. At Eastern since 1961.

ANN ALGIER, B.A., M.A. **Assistant Professor of Education**

B.A., University of Wyoming; M.A., University of New Mexico; additional graduate work at Adams State College, Colorado. At Eastern since 1966.

KEITH W. ALGIER, B.A., M.A., Ph.D. **Associate Professor of History**

B.A., M.A., Ph.D., University of New Mexico. At Eastern since 1965.

JANETTE AMBOISE-CHAUMONT, B.Mus., M.Mus., Ph.D. **Associate**
Professor of Music

B.Mus., Syracuse University; M.Mus. Syracuse University; Ph.D., Indiana University. At Eastern since 1967.

Dean of Admissions
CHARLES F. AMBROSE, A.B., M.A., Ed.D. **Professor of Education**

A.B., Transylvania College; M.A., Ed.D., University of Kentucky. At Eastern since 1961.

T. L. ARTERBERRY, A.B., M.A. **Associate Professor of Education**

A.B., M.A., University of Kentucky; additional graduate work at George Peabody College for Teachers. At Eastern since 1959.

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*Terminal leave Spring Semester 1969.

BERT COATES BACH, B.A., M.A., Ph.D. **Chairman, English Composition Program**
Professor of English

B.A., Eastern Kentucky State College; M.A., George Peabody College for Teachers; Ph.D., New York University. At Eastern since 1966.

***JAMES E. BAECHTOLD, B.S., M.S.** **Associate Professor of Physical Education and Recreation**

B.S., Eastern Kentucky State College; M.S., Indiana University. At Eastern since 1958.

LANDIS D. BAKER, B.Mus., M.F.A. **Associate Professor of Music**

B.Mus., Heidelberg College; M.F.A., Ohio University; additional graduate work, University of Illinois. At Eastern since 1954.

RON F. BANDY, B.F.A., M.F.A. **Instructor of Art**

B.F.A., Ohio University; M.F.A., University of Florida. At Eastern since 1966.

DIXON A. BARR, B.S. in Ed., M.A., Ed.D. **Dean, College of Education**
Professor of Education

B.S., in Ed., Ball State University; University of Heidelberg, Germany; M.A., Ed.D., Teachers College, Columbia University. At Eastern since 1961.

MARTHA BARTON, B.S., M.A. **Instructor of Elementary Education**
Supervising Teacher, Laboratory School

B.S., M.A., Eastern Kentucky State College. Additional graduate work, Eastern Kentucky University. At Eastern since 1966.

DONALD L. BATCH, B.S., M.S., Ph.D. **Associate Professor of Biology**

B.S., Illinois College; M.S., Ph.D., University of Illinois. At Eastern since 1965.

VICTOR IVOR BENDALL, B.S., M.S., Ph.D. **Associate Professor of Chemistry**

B.S., A.R.C.S., Imperial College, London, England; M.S., Bucknell University; Ph.D., Brown University. At Eastern since 1966.

DONALD C. BENNETT, B.A., M.A. **Assistant Professor of Social Science**

B.A., M.A., Duquesne University; additional graduate work, Loyola University. At Eastern since 1967.

MARION MALONE BERGE, R.N., B.S., M.A. **Instructor of Nursing**

Diploma, Erlanger Hospital School of Nursing; B.S., Eastern Kentucky University; M.A., George Peabody College. At Eastern since 1965.

WILLIAM H. BERGE, A.B., M.A. **Associate Professor of History**

A.B., Eastern Kentucky State College; M.A., Vanderbilt University; additional graduate work, Vanderbilt University. At Eastern since 1961.

SIMON M. BERGGRUN, B.A., M.A. **Assistant Professor of Spanish**

B.A., Catawba College; M.A., University of North Carolina; additional graduate work at University of North Carolina. At Eastern since 1967.

*on leave second semester 1969.

JOSEPH A. BIESINGER, B.S., M.A. **Assistant Professor of Social Science**
B.S., M.A., Loyola University (Chicago); additional graduate work, Rutgers University. At Eastern since 1966.

****J. G. BLACK, B.S., M.S., Ph.D.** **Professor of Physics**
B.S., M.S., University of Kentucky; Ph.D., University of Michigan. At Eastern since 1947.

***JON F. BOTSFORD, B.S., M.S.** **Assistant Professor of Industrial Education**
B.S., M.S., Stout State University; additional graduate work, Texas A&M University. At Eastern since 1964.

CHARLES BOWERSOX, B.B.A., M.B.A. **Instructor of Business Administration**
B.B.A., M.B.A., Ohio University. At Eastern since 1967.

COLLIN J. BOYD, B.S., M.A. **Assistant Professor of Social Science**
B.S., M.A., University of Maryland; additional graduate work, University of Maryland. At Eastern since 1967.

URSEL D. BOYD, J.D., M.A., Ph.D. **Associate Professor of German**
J.D., Washington University, M.A., Ph.D., University of Maryland. At Eastern since 1967.

BRANLEY ALLAN BRANSON, A.B., B.S., M.S., Ph.D. **Professor of Biology**
A.B., Oklahoma A. and M. College; B.S., M.S., Ph.D., Oklahoma State University. At Eastern since 1965.

PHILIP W. BRASHEAR, B.A., M.A. **Assistant Professor of Mathematics**
B.A., University of Kentucky; M.A., Northwestern University; additional graduate work, University of Kentucky. At Eastern since 1965.

FRED W. BRIZENDINE, A.B., M.A. **Assistant Professor of Economics**
A.B., M.A., Western Kentucky State College; additional graduate work, George Peabody College. At Eastern since 1963.

ALLEN C. BROCK, JR., A.A., B.S. in Ed., M.Ed. **Assistant Professor of English**
A.A., Truett-McConnell College; B.S., in Ed., M.Ed., University of Georgia; additional graduate work, University of Georgia and George Peabody College for Teachers. At Eastern since 1960.

ANDREW J. BROEKEMA, B.Music, M.Music, Ph.D. **Chairman, Department of Music**
Professor of Music
B.Music, M.Music, University of Michigan; Ph.D., University of Texas. At Eastern since 1965.

BERNARD C. BROWN, B.S., J. D. **Assistant Professor, School of Law Enforcement**
B.S., Montana State University; J.D., University of Utah. At Eastern since 1967.

**Terminal leave first semester 1968-1969.

*Leave 1968-69.

GEORGE M. BROWN, B.S. in Ed., M.S. in Ed. Assistant Professor of Industrial Education

B.S. in Ed., Eastern Illinois University; M.S. in Ed., Northern Illinois University; additional graduate work, University of Kentucky. At Eastern since 1963.

ROBERT O. BROWN, A.B., M.B.A., C.P.A. Professor of Accounting

A.B., Depauw University; M.B.A., University of Chicago; C.P.A., District of Columbia. At Eastern since 1966.

WILLIAM GORDON BROWNING, B.A., M.A., Ph.D. Associate Professor of English

B.A., Louisiana Polytechnic Institute; M.A., Ph.D., Louisiana State University. At Eastern since 1966.

VEVA A. BUCHHOLZ, B.S. in Ed., M.S. Assistant Professor of Home Economics

B.S. in Ed., Eastern Illinois University; M.S., University of Illinois; additional graduate work, Teachers College, Columbia University and Colorado State University. At Eastern since 1959.

WILLIAM A. BUCKNER, B.S., M.A. Associate Professor, Political Science

B.S., Georgetown University, Washington, D.C.; M.A., University of Kentucky; additional graduate work, University of Edinburg, Scotland, University of Denver, University of Kentucky. At Eastern since 1968.

JERRY D. BUMPUS, A.B., M.F.A. Assistant Professor of English

A.B., University of Missouri, M.F.A., State University of Iowa. At Eastern since 1967.

***SYLVIA D. BURKHART, B.A., M.A.** Assistant Professor of German

B.A., University of Kentucky; graduate work, University of Heidelberg; M.A., University of Cincinnati; additional graduate work, University of Cincinnati. At Eastern since 1965.

ROBERT E. BURKHART, B.B.A., M.A., Ph.D. Assistant Professor of English

B.B.A., M.A., University of Pittsburg; Ph.D., University of Cincinnati. At Eastern since 1967.

ERNEST E. BYRN, B.S., M.S., Ph.D. Chairman, Chemistry Department
Professor of Chemistry

B.S., M.S., Ph.D., University of Tennessee. At Eastern since 1966.

ROBERT L. BYRNE, B.S. in ED., M.Ed., Ed.D. Director, Reading Center
Professor of Education

B.S. in Ed., Ohio University; M.Ed., Kent State University; Ed.D., George Peabody College for Teachers. At Eastern since 1965.

HAROLD F. CAHALAN, B.A., M.A. Assistant Professor of Social Science and History

B.A., University of Notre Dame; M.A., University of Illinois; additional graduate work at University of Illinois. At Eastern since 1966.

*On leave 1968-69.

CAROL CALDWELL, B.A., M.A. **Instructor of Social Science**
B.A., Eastern Kentucky University; M.A., University of Kentucky. At Eastern since 1968.

JACK T. CALLENDER, A.B., M.A. **Assistant Professor of English and Education**
A.B., Georgetown College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1965.

GLENN O. CAREY, A.B., M.A., Ph.D. **Associate Dean, College of Arts and Sciences, Professor of English**
A.B., M.A., Pennsylvania State University, Ph.D., University of Illinois. At Eastern since 1967.

ANDREW R. CARLSON, B.A., M.A. **Assistant Professor of Social Science**
B.A., M.A., Western Michigan University; additional graduate work, Michigan State University. At Eastern since 1967.

STUART ALLEN CARLSON, B.F.A., M.F.A. **Instructor of Art**
B.F.A., M.F.A., School of The Art Institute of Chicago. At Eastern since 1966.

MARY E. CARROLL, B.A., M.S. **Assistant Professor of Home Economics**
B.A., Eastern Kentucky State College; M.S., University of Kentucky; additional graduate work, Ball State Teachers College and University of Kentucky. At Eastern since 1963.

***DOROTHY ANN CARTER, B.A., M.A.** **Instructor of French**
B.A., M.A., University of Kentucky. At Eastern since 1964.

SHIRLEY CASTLE, A.B., M.A. **Director of Personnel Services**
A.B., Murray State College; M.A., University of Kentucky. At Eastern since 1967.

GERALD L. CHANEY, B.S., M.S. **Instructor of Chemistry**
B.S., University of Cincinnati; M.S., University of Kentucky. At Eastern since 1964.

ANNE MARGARET CHASE, B.S., M.S., Ph.D. **Professor of Home Economics and Education**
B.S., M.S., Indiana University; Ph.D., Ohio State University. At Eastern since 1965.

GARY K. CHASTAIN, B.S., M.S. **Assistant Professor of Industrial Education**
B.S., M.S., Indiana University. At Eastern since 1966.

JAMES S. CHENAULT, B.A., LL.B. **Lecturer, School of Law Enforcement**
B.A., Eastern Kentucky University, LL.B., University of Kentucky. At Eastern since 1967.

PERRY CHILDERS, B.S., M.A.Ed., Ed.D. **Associate Professor of Education**
B.S., University of Kentucky; M.A.Ed., University of Georgia; M.A.Ed., Ed.D., University of Georgia. At Eastern since 1967.

JOHN H. CHISHOLM, B.Ed., M.Ed. **Assistant Professor of Education**
B.Ed., M.Ed., University of Miami; additional graduate work, Eastern Kentucky State College. At Eastern since 1964.

*On leave 1968-1969.

WILLIAM T. P. CHOY, B.S., M.S., Ph.D. **Associate Professor of Physics**

B.S., Baylor University, M.S., Ph.D., University of Florida. At Eastern since 1967.

HAZEL L. CHRISMAN, B.A., M.A. **Associate Professor of English**

B.A., Berea College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1959.

REVA WELLS CHRISMAN, A.B., M.A. **Instructor of English**
Supervising Teacher, Laboratory School

A.B., University of Kentucky; M.A., University of Kentucky. At Eastern since 1967.

RICHARD G. CHRISMAN, B.A., M.A. **Professor of Economics**

B.A., Berea College; M.A., University of Kentucky. Additional graduate work, University of Chicago. At Eastern since 1951.

FRANCIS E. CLARK, B.S., M.Ed. **Assistant Professor of Industrial Technology**

B.S., Kansas State College at Pittsburg; M.Ed., Texas A&M University; additional graduate work, University of Missouri. At Eastern since 1966.

WILLIAM H. CLAY, A.B., M.A., Ph.D. **Assistant Professor of Social Science**

A.B., Eastern Kentucky State College; M.A., Ph.D. University of Kentucky. At Eastern since 1966.

J. DORLAND COATES, B.S., M.A., Ph.D. **Associate Dean, College of Education**
Professor of Secondary Education

B.S., Eastern Kentucky State College; M.A., George Peabody College for Teachers; Ph.D., Colorado State College of Education; post-doctoral work, University of Chicago. At Eastern since 1931.

LARUE COCANOUGHER, A.M., M.A., Ed.D. **Dean for Continuing Education**
Professor of Education

A.B., Centre College; M.A., Ed.D., George Peabody College for Teachers. At Eastern since 1966.

STEPHAN H. COE, A.B., M.A. **Assistant Professor of Social Science & History**

A.B., Brown University; M.A., The American University; additional graduate work at The American University. At Eastern since 1966.

FLOYD W. COLEMAN, A.B., M.Ed., Ed.D. **Assistant Professor of Education**

A.B., Friends University; M.Ed., Ohio University; Ed.D., University of Kentucky. At Eastern since 1966.

DONALD COMBS, B.S., M.A. **Assistant Professor of Health and Physical Education; Coach of Swimming Team**

B.S., M.A., Eastern Kentucky State College. At Eastern since 1963.

DONALD A. COOPER, B.S., M.A., Ph.D. **Associate Professor of Music and Education**

B.S., Wisconsin State University; M.A., Colorado State College; Ph.D., University of Montana. At Eastern since 1966.

ANNA M. CORNELISON, B.S., M.A. Assistant Professor of Elementary Education
Supervising Teacher, Laboratory School

B.S., M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College. At Eastern since 1963.

FRED H. CORNELIUS, A.B., M.A. Assistant Professor of English

A.B., Georgetown College; M.A., University of Kentucky; additional graduate work at University of Kentucky. At Eastern since 1965.

CURTIS WARREN COX, BS., M.A. Assistant Professor of Science and Mathematics, Supervising Teacher, Laboratory School

A.B., Berea College; M.A., Ohio State University. Additional graduate work at The University of Rochester. At Eastern since 1967.

CLYDE O. CRAFT, B.S., M.A., Ed.D. Assistant Professor of Industrial Education

B.S., M.A., Eastern Kentucky University; Ed.D., Texas A&M University. At Eastern since 1967.

JEAN GRAIG, B.Mus.Ed., M.A. Assistant Professor of Music & Education

B.Mus.Ed., Oberlin Conservatory of Music; M.A., Teachers College, Columbia University; additional graduate work at Columbia University. At Eastern since 1967.

MARTHA ANN CRAWFORD, A.B., M.A. Instructor of English

A.B., The Woman's College of Georgia; M.A., University of Michigan. At Eastern since 1966.

EFFIE CREAMER, B.S., M.S., Ph.D. Associate Professor of Home Economics

B.S., Berea College; M.S., Ph.D., Texas Woman's University. At Eastern since 1966.

GLYNN N. CREAMER, B.A., M.Ed. Assistant Professor of Mathematics and Education

B.A., M.Ed., North Texas State University; additional graduate work, North Texas State University. At Eastern since 1966.

JACK E. CREECH, A.B., M.A. Assistant Professor of History,
Supervising Teacher, Laboratory School

A.B., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1956.

JACQUELINE B. CROSS, B.A., M.A. Instructor of French

B.A., University of Toronto, Canada; M.A., University of Kentucky. At Eastern since 1966.

MARY ELLEN CURTIN, B.S., M.S., Ph.D. Assistant Professor of Psychology

B.S., M.S., Ph.D., University of Kentucky. At Eastern since 1965.

***ARTHUR E. CURTIS, B.A., M.A.** Assistant Professor of Social Science

B.A., Swarthmore College; M.A., Cornell University; additional graduate work, University of Oregon. At Eastern since 1967.

*On leave 1968-69.

CATHERINE W. DALE, A.B., A.M.T. Assistant Professor of Biology and Education

A.B., University of Rochester; A.M.T., Indiana University; additional graduate work, Indiana University. At Eastern since 1966.

FRED DARLING, B.S., M.A., M.A. in Ed., Dir.R., Dir.P.E., Re.D. Professor of Health, Physical Education and Recreation

B.S., M.A., Eastern Kentucky State College; M.A. in Ed., University of Kentucky; Dir.R., Dir.P.E. Re.D., Indiana University. At Eastern since 1946.

JOHN EDWIN DAVIDSON, B.S., M.S., Ph.D. Associate Professor of Chemistry

B.S., M.S., Ph.D., University of Tennessee. At Eastern since 1965.

J. HOMER DAVIS, B.S., M.Ed. Associate Professor of Industrial Arts

B.S., Eastern Kentucky State College; M.Ed., University of Missouri; additional graduate work, University of Kentucky; Penn State University; University of Cincinnati. At Eastern since 1949.

FRANCIS X. DAVY, A.B., M.A., Ph.D. Professor of English

A.B., Saint Mary's College; M.A., University of California; Ph.D., Columbia University. At Eastern since 1967.

DANIEL R. DEANE, JR., A.B., B.A. Assistant Professor of Art Supervising Teacher, Laboratory School

A.B., M.A., University of Kentucky; additional graduate work, Eastern Kentucky State College, University of Kentucky. At Eastern since 1962.

EDWARD A. DECARBO, JR., B.S., M.A. Co-ordinator of International Education Assistant Professor of Social Science

B.S.F.S., Georgetown University; M.A., University of Chicago; additional graduate work, University of Pittsburg. At Eastern since 1967.

JOHN M. DECK, B.S., M.S., P.E.Dir., P.E.D. Professor of Health and Physical Education

B.S., Central Methodist College; M.S., P.E.Dir., P.E.D., Indiana University. At Eastern since 1964.

JAMES WHEELER DEESE, B.A., J.D. Assistant Professor of Law Enforcement

B.A., J.D., University of Mississippi; additional graduate work, University of Mississippi. At Eastern since 1967.

JOHNNY DEAN DELAIGLE, A.B., M.A. Instructor of Physics

A.B., Berry College; M.A., Wake Forest College. At Eastern since 1965.

CHARLOTTE DENNY, R.N., B.S., M.A. Chairman, Dept. of Nursing Associate Professor of Nursing

Diploma, Central Islip State Hospital School of Nursing; B.S., New York University, M.A., University of Kentucky; additional graduate work, City College of New York and University of Kentucky. At Eastern since 1967.

NEAL DONALDSON, B.S., M.A. **Dean of Business Affairs**

B.S., M.A., University of Kentucky. At Eastern since 1965.

ALAN J. DOWNES, B.A., M.A., Ph.D. **Chairman, Department of Social Science**
Professor of Social Science

B.A., M.A., Florida State University; Ph.D., University of Washington. At Eastern since 1967.

RANDOLPH DOZIER, A.B., M.A. **Assistant Professor of Art and Education**

A.B., M.A., Eastern Kentucky State College. At Eastern since 1959.

***LATHEL F. DUFFIELD, B.A., M.A.** **Assistant Professor of Anthropology and Sociology**

B.A., M.A., University of Oklahoma; additional graduate work, University of Tulsa, University of San Carlos (Guatamala), University of Arizona, University of Texas. At Eastern since 1964.

JOHN L. DUNHAM, B.S., M.A. **Assistant Professor of Business Education and Office Administration**

B.S., M.A., University of Cincinnati. At Eastern since 1966.

MICHAEL J. DUSZAK, M.A., Ph.D. **Professor of History**

M.A., Jagellonian University, Poland; Ph.D., University of Paris, Sarbonne, Paris, France. At Eastern since 1965.

JACK L. DYER, B.S., M.B.A. **Assistant Professor of Accounting**

B.S., M.B.A., Indiana State University. At Eastern since 1967.

FRED A. ENGLE, JR., B.S., M.B.A., Ed.D. **Associate Professor of Economics**

B.S., Eastern Kentucky State College; M.B.A., Ed.D., University of Kentucky. At Eastern since 1959.

LYDIA E. FAKUNDINY, B.A., B.Phil. **Assistant Professor of English**

B.A., Smith College; B.Phil., Oxford University; additional graduate work, Oxford University. At Eastern since 1966.

JERRY S. FAUGHN, B.S., M.S. **Assistant Professor of Physics**

B.S., Murray State University; M.S., University of Kentucky; graduate work, University of Mississippi. At Eastern since 1968.

DONALD R. FELTNER, B.S., M.A. **Dean of Public Affairs**
Assistant Professor of Journalism

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1956.

STEVEN FISCHER, B.S., M.Ed. **Student Financial Assistance**

B.S., M.Ed., University of Missouri. At Eastern since 1967.

CACUS P. FLESHER, B.S., M.A. **Assistant Professor of Education**

B.S., Eastern Kentucky University; M.A., University of Kentucky; additional graduate work, George Peabody College and University of Kentucky. At Eastern since 1962.

***On leave 1968-69**

***BEN V. FLORA, JR., B.S., M.A.** Assistant Professor of Mathematics and Education

B.S., Eastern Kentucky State College; M.A., George Peabody College for Teachers; additional graduate work, University of Illinois, Ohio State University. At Eastern since 1961.

NANCY KIRKHAM FORDERHASE, A.B., M.A. Assistant Professor of History

A.B., State University of South Dakota; M.A., University of Missouri; additional graduate work at University of Missouri. At Eastern since 1966.

RUDOLPH EUGENE FORDERHASE, A.B., A.M., Ph.D. Associate Professor of History

A.B., A.M., Ph.D., University of Missouri. At Eastern since 1966.

RICHARD TELL FOUST, SR., B.S., M.M.E., Instructor of Music Supervising Teacher, Laboratory School

B.S. Austin Peay; M.M.E., Eastern Kentucky University. At Eastern since 1967.

ADRIANNA H. FRANCIS, B.S., M.A. Assistant Professor of Elementary Education Supervising Teacher, Laboratory School

B.S., Pikeville College; M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky and Eastern Kentucky State College. At Eastern since 1963.

FRED L. FRANCIS, B.S., M.A. Instructor of Health and Physical Education Assistant Football Coach

B.S., Morehead State University; M.A., Murray State University. At Eastern since 1967.

SARAH EVELYN FRANCIS, B.S., M.A., Ed.D. Professor of Education

B.S., M.A., East Tennessee State University; Ed.D., Indiana University. At Eastern since 1966.

JOAN FREDRIC, R.N., B.S.N., M.N. Assistant Professor of Nursing

B.S.N., M.N., University of Florida. At Eastern since 1967.

DAISY B. FRENCH, B.S., M.A. Assistant Professor of Accounting

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1956.

JAMES EARLE FRYE, B.S., M.A. Instructor of Science and Mathematics Supervising Teacher, Laboratory School

B.S., M.A., Eastern Kentucky University. At Eastern since 1967.

RUDOLPH S. FULTON, B.S., M.S. Instructor of Biology

B.S., East Central State College; M.S., University of Mississippi. At Eastern since 1967.

JOHN R. GASKINS, B.S.Ed., M.A.Ed., Ph.D. Assistant Professor of Education

B.S.Ed., M.A.Ed., Ph.D., Kent State University. At Eastern since 1966.

*On leave 1968-69

DWIGHT DEAN GATWOOD, A.A., B.S., M.A. **Associate Professor of Art**

A.A., B.S., M.A., George Peabody College for Teachers; additional graduate work, Ohio State University, New York University, Indiana University. At Eastern since 1947.

RICHARD LEE GENTRY, B.S., M.A. **Assistant Professor of Health and Physical Education**

B.S., M.A., Eastern Kentucky State College; graduate work, University of Kentucky. At Eastern since 1964.

TED M. GEORGE, B.A., M.A., Ph.D. **Chairman, Department of Physics Professor of Physics**

B.A., M.A., Ph.D., Vanderbilt University. At Eastern since 1964.

CHARLES H. GIBSON, JR., B.S., M.A., Ph.D. **Assistant Dean College of Education, Associate Professor of Education**

B.S., M.A., Eastern Kentucky State College; Ph.D., University of Kentucky. At Eastern since 1962.

NEWELL T. GILL, B.A., M.A., Ed.D. **Associate Professor of Education**

B.A., University of North Carolina; M.A., Ed.D., University of Florida. At Eastern since 1965.

HUGH RONALD GILLILAND, B.S., M.S., Ed.D. **Associate Professor of Industrial Technology**

B.S., M.S., Northwest State College (Louisiana); Ed.D., University of Missouri. At Eastern since 1966.

ROBERT H. GOODWIN, B.S., M.S. **Assistant Professor of Psychology**

B.S., M.S., Springfield College; additional graduate work, New York State University College at Plattsburg, University of Hartford, Western Reserve University. At Eastern since 1967.

JOHN T. GORGONE, A.A., B.A., M.A. **Instructor of Business Administration**

A.A., Pueblo College; B.A. Southern Colorado State College; M.A., Colorado State College; additional graduate work, Colorado State University. At Eastern since 1967.

***R. PARKER GOWING, B.A., M.B.A.** **Assistant Professor of Economics**

B.A., Princeton University; M.B.A., Xavier University; additional graduate work, Indiana University. At Eastern since 1964.

FAY GRAY, A.B., M.A. **Instructor of Business Education and Office Administration**

A.B., Bowling Green College of Commerce; M.A., Western Kentucky University. At Eastern since 1966.

LLOYD J. GRAYBAR, A.B., M.A., Ph.D. **Assistant Professor of History**

A.B., Middlebury College; M.A., Ph.D., Columbia University. At Eastern since 1966.

KENNETH GRIFFITH, B.S., C.P.A. **Assistant Professor of Accounting**

B.S., Eastern Kentucky University; C.P.A., Kentucky and Ohio. At Eastern since 1965.

*On leave 1968-69

MARTHA GRISE, A.B., M.A. **Instructor of English**

A.B., Kentucky Wesleyan, M.A., Eastern Kentucky University. At Eastern since 1967.

ROBERT N. GRISE, A.B., M.A., Ed.D. **Associate Professor of Education**

A.B., M.A., Eastern Kentucky State College; Ed.D., University of Kentucky. At Eastern since 1963.

GERALD K. GROSE, B.S., M.S. **Director of Bands**
Assistant Professor of Music and Education

B.S., M.S., University of Illinois; additional graduate work, University of Illinois. At Eastern since 1966.

BARNEY R. GROVES, B.S., M.S., Ph.D. **Associate Professor of Health and Physical Education, Intramural Director**

B.S., Southeastern State College, Oklahoma; M.S., Oklahoma University; Ph.D., Florida State University. At Eastern since 1964.

PATSY P. GROVES, B.S., M.S. **Instructor of Elementary Education**
Supervising Teacher, Laboratory School

B.S., M.S., Southeastern State College, Oklahoma; additional graduate work, Florida State University and Eastern Kentucky University. At Eastern since 1964.

RODGER S. GUNN, B.S., M.S., M.A. **Assistant Professor of Political Science**

B.S., M.S., Brigham Young University, M.A., University of Pennsylvania, additional graduate work at the University of Pennsylvania. At Eastern since 1967.

JANE GURGANUS, A.B., M.A. **Assistant Professor of Political Science**

A.B., Goucher College; M.A., Emory University, additional graduate work at Emory University. At Eastern since 1967.

OBERITA HAGER, A.B., M.A., Ph.D. **Associate Professor of Business Education and Office Administration**

A.B., M.A., Marshall University; Ph.D., The Ohio State University. At Eastern since 1967.

RITA K. HALE, A.B., M.A. **Instructor of English**

A.B., M.A., University of Kentucky. At Eastern since 1967.

HARRY HALE, JR., A.B., Ph.D. **Chairman, Department of Anthropology and Sociology**
Professor of Sociology

A.B., Fresno State College; Ph.D., University of Tennessee. At Eastern since 1968.

NORVALINE C. HALE, B.S, M.A., Ed.D. **Associate Professor of Business Administration**

B.S., M.A., Eastern Kentucky University; Ed.D., Indiana University. At Eastern since 1957.

LOIS Y. HAMM, B.S., M.S. **Counselor**

B.S., M.S., Eastern Kentucky State College; additional graduate work at University of Kentucky. At Eastern since 1966.

DONALD C. HANEY, B.S., M.S., Ph.D. **Chairman, Department of Geology**
Professor of Geology

B.S., M.S., University of Kentucky; Ph.D., University of Tennessee. At Eastern since 1962.

KENNETH S. HANSSON, B.S., M.Ed., Ph.D. **Professor and Director of the Kentucky School of Crafts**

B.S., Southern Illinois University; M.Ed., Ph.D., University of Missouri. At Eastern since 1966.

JAMES S. HARRIS, A.B., M.A. **Associate Professor of Education and Director of Instructional Services**

A.B., University of Kentucky; M.A., University of Missouri; additional graduate work at Louisiana State University and University of Maryland. At Eastern since 1965.

SUSAN B. HARRIS, B.S., M.A. **Instructor of Speech**

B.S., Murray State College; M.A., University of Missouri. At Eastern since 1965.

PHILLIP H. HARRIS, B.A., M.A. **Instructor of Art**

B.A., M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1964.

ROBERT W. HARTWELL, B.Mus.Ed., M.A., **Assistant Professor of Music**

B.Mus.Ed., Capital University; M.A., Ohio State University; additional graduate work, Ohio State University. At Eastern since 1967.

ROBERT H. HARVILLE, B.S., M.A. **Instructor of Health and Physical Education**
Assistant Football Coach

B.S., M.A., Eastern Kentucky State College; additional graduate work at Eastern Kentucky State College. At Eastern since 1965.

ALDEN O. HATCH, B.S. **Director of Housing**

B.S., University of Utah. At Eastern since 1965.

BETTY K. HATFIELD, A.B., M.S.L.S. **Assistant Professor of Library Science**

A.B., M.S.inL.S., University of Kentucky. At Eastern since 1963.

GLENN W. HAYES, B.S., M.Ed., Ed.D. **Associate Professor of Agriculture**

B.S., M.Ed., Ed.D., University of Illinois. At Eastern since 1966.

SUSIE HAYES, B.S., M.Ed. **Assistant Professor of Elementary Education**
Supervising Teacher, Laboratory School

B.S., M.Ed., University of Illinois; additional graduate work at Eastern Kentucky University. At Eastern since 1966.

GLYNNA J. HAYS, B.S., M.S. **Assistant Professor of Home Economics**
Supervising Teacher, Laboratory School

B.S., Eastern Kentucky State College; M.S., University of Kentucky; additional work at Eastern Kentucky State College. At Eastern since 1963.

CURRY B. HEARN, JR., A.B., M.A., Ph.D. Associate Professor of Psychology

A.B., Belmont College; M.A., Ph.D., George Peabody College for Teachers. At Eastern since 1967.

DONALD G. HENRICKSON, B.Mus., M.Mus. Assistant Professor of Music

B.Mus., M.Mus., University of Illinois; additional graduate work, University of Illinois, Florida State University, University of Missouri. At Eastern since 1959.

H. RICHARD HENSEL, B.Mus., M.Mus., A.Mus.D., Professor of Music

B.Mus., M.Mus., American Conservatory of Music; A.Mus.D., University of Illinois. At Eastern since 1967.

***JANET HIBBARD, B.S., M.A.** Assistant Professor of Business Administration

B.S., M.A., Eastern Kentucky State College. At Eastern since 1961.

RHODA ANN HIGGINBOTHAM, B.M., M.M.E. Instructor of Music
Supervising Teacher, Laboratory School

B.M., University of Kentucky; M.M.E., Eastern Kentucky University. At Eastern since 1967.

THOMAS F. HIGGINBOTHAM, B.S., M.Ed., Instructor of Mathematics

B.S., University of Georgia; M.Ed., Auburn University. At Eastern since 1967.

ORDELLE HILL, B.A., M.A., Ph.D. Associate Professor of English

B.A., Augustana College; M.A., Auburn University; Ph.D., University of Illinois. At Eastern since 1966.

BENTLY J. HILTON, A.B., M.A., Ed.S. Assistant Professor of Social Science
Director of Counseling

A.B., M.A., Eastern Kentucky State College; Ed.S., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1960.

BETTY J. HISLE, A.B., M.A., Instructor of English

A.B., Berea College; M.A., University of Kentucky. At Eastern since 1967.

JACK R. HISSOM, B.S., M.A. Assistant Professor of Health and Physical Education, Assistant Basketball Coach

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky, Ohio University. At Eastern since 1967.

JACQUELINE HOFFMANN, B.S., M.A. Assistant Professor of Elementary Education, Supervising Teacher, Laboratory School

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1965.

*On leave 1968-69.

BRUCE D. HOAGLAND, B.S., M.S., A.Mus.D. **Assistant Professor of Music**
B.S., Indiana State University; M.S., University of Illinois; A.Mus.D., University of Missouri at Kansas City. At Eastern since 1967.

EMOGENE M. HOGG, B.S., M.A., Ed.D. **Associate Professor of Business Education**
B.S., Berea College; M.A., Eastern Kentucky State College; Ed.D., University of Tennessee. At Eastern since 1960.

LAVERNE HOLCOMB, B.S., M.A. **Assistant Professor of Education**
B.S., Eastern Kentucky State College; M.A., University of Kentucky; additional graduate work at University of Kentucky and Eastern. At Eastern since 1966.

TAYLOR HOLLIN, B.S., M.A. **Instructor of Health and Physical Education, Supervising Teacher, Laboratory School**
B.S., M.A., Eastern Kentucky University. At Eastern since 1967.

GERTRUDE M. HOOD, A.B., A.M., **Associate Professor of Health and Physical Education**
A.B., Ohio Wesleyan University; A.M., Columbia University. At Eastern since 1928.

JOEL HOROWITZ, B.S., M.A. **Instructor of Sociology**
B.S., M.A., University of Louisville. At Eastern since 1966.

WILLIAM A. HOUSEHOLDER, B.S., M.S., Ph.D. **Chairman, Department of Agriculture**
Professor of Agriculture
B.S., Colorado State University; M.S., Cornell University; Ph.D., Michigan State University. At Eastern since 1965.

LYNN F. HOUSTON, A.B., M.A.T. **Instructor of Mathematics**
A.B., University of Kentucky; M.A.T., University of North Carolina. At Eastern since 1967.

WILBUR RUSSELL HOUSTON, M.D. **Campus Physician**
M.D., Eclectic Medical College. At Eastern since 1966.

AUGHTUM S. HOWARD, A.B., M.S., Ph.D. **Professor of Mathematics**
A.B., Georgetown College; M.S., Ph.D., University of Kentucky. At Eastern since 1958.

JOSEPH M. HOWARD, B.S., A.M., Ed.D. **Professor of Education**
B.S., Western Kentucky State College; A.M., George Peabody College; Ed.D., Teachers College, Columbia University. At Eastern since 1962.

DAVID HUFFSTETLER, B.S., M.S. **Instructor of Health and Physical Education, Athletic Trainer**
B.S., Maryville College; M.A., Indiana University. At Eastern since 1965.

CHARLES T. HUGHES, A.B., M.A. **Professor of Health and Physical Education Baseball Coach**

Diploma, Morton-Elliott Junior College; A.B., University of Kentucky; M.A., University of Michigan. At Eastern since 1929.

CURTIS D. HULTEEN, B.S., M.S. **Assistant Professor of Traffic Safety**

B.S., M.S., Illinois State University; additional graduate work, Illinois State University. At Eastern since 1967.

BONNIE B. HUME, B.S., M.A., Ph.D. **Associate Professor of Education**

B.S., Eastern Kentucky University; M.A., Ph.D., University of Kentucky. At Eastern since 1968.

ROBERT L. HUNGARLAND, B.S., M.B.A. **Associate Professor of Business**

B.S., Oklahoma City University; M.B.A., Southern Methodist University; graduate work, Arizona State University. At Eastern since 1964.

GRAHAM H. HUNT, B.S., M.S., Ph.D. **Associate Professor of Geology**

B.S., University of Manitoba; M.S., Ph.D., University of Alberta. At Eastern since 1967.

CARL E. HURLEY, B.S., M.A. **Instructor of Industrial Arts Supervising Teacher Laboratory School**

B.S., M.A., Eastern Kentucky University; additional graduate work, Eastern Kentucky University, University of Missouri. At Eastern since 1966.

JOSEPH B. HURWITZ, A.B., M.A., M.F.A. **Instructor of Art**

A.B., University of Illinois; M.A., M.F.A. University of Iowa. At Eastern since 1967.

MARY K. INGELS, A.B., M.A. **Dean of Women Assistant Professor of Foreign Languages**

A.B., M.A., Eastern Kentucky State College; study tour, Ohio University; graduate study, Appalachian State Teachers College, Boone, North Carolina; L'Universite' de Besancon, France. At Eastern since 1961.

JACK D. ISON, B.S., M.A. **Assistant Professor of Health and Physical Education, Assistant Football Coach**

B.S., M.A., Eastern Kentucky State College; additional graduate work, Indiana University. At Eastern since 1967.

MABEL W. JENNINGS, B.S., M.A., Ed.S. **Associate Professor of Education**

B.S., M.A., Eastern Kentucky State College; Ed.S., University of Kentucky; additional graduate work, University of Chicago, University of Kentucky. At Eastern since 1947.

MYRENA S. JENNINGS, B.S., M.A. Instructor of Business Education and Office Administration

B.S., M.A., Eastern Kentucky State College; additional graduate work at University of Kentucky. At Eastern since 1967.

VIRGINIA N. JINKS, B.S.Ed., M.A. Assistant Professor of Health and Physical Education

B.S.Ed., Bowling Green State University; M.A., Eastern Kentucky State College. At Eastern since 1963.

RAYMOND J. JIRRAN, A.B., B.S., M.A. Assistant Professor of Social Science

A.B., Saint Joseph's Seminary College; B.S., M.A., Kent State University; additional graduate work, Kent State University. At Eastern since 1967.

***PATRICIA JOHNSON, B.A., M.A.** Assistant Professor of Health and Physical Education

B.A., M.A., Morehead State College; additional graduate work, New York University, Ball State University. At Eastern since 1966.

THOMAS D. JOHNSTEN, B.S., M.S., Ph.D. Assistant Professor of Biology

B.S., Kansas State Teachers College; M.S., Fort Hays Kansas State College; Ph.D., University of Nebraska. At Eastern since 1967.

JO NELL JONES, A.B., M.A. Assistant Professor of Business Education and Office Administration

A.B., Bowling Green College of Cemmerce; M.A., Western Kentucky State College. At Eastern since 1964.

SANFORD L. JONES, B.S., M.S., Ph.D. Professor of Biology

B.S., Eastern Kentucky State College; M.S., University of Kentucky; Ph.D., Medical School, University of Tennessee. At Eastern since 1961.

W. C. JONES, B.S., M.A., Ph.D. Professor of Education

B.S., East Texas University; M.A., Colorado State College; Ph.D., George Peabody College. At Eastern since 1966.

SHIRLEY KEARNS, JR., A.B., M.A. Assistant Professor of Physical Education
Supervising Teacher, Laboratory School

A.B., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky, Eastern Kentucky State College. At Eastern since 1962.

THOMAS L. KEEFE, B.S., M.S., Ph.D. Assistant Professor of Biology

B.S., M.S., University of South Carolina; Ph.D., University of Georgia. At Eastern since 1966.

QUENTIN B. KEEN, B.A., M.A., M.A.Ed., Ph.D. Professor of History and Education

B.A., Berea College; M.A., Duke University; M.A.Ed., Eastern Kentucky State College; Ph.D., University of California at Los Angeles; post graduate work, University of Kentucky. At Eastern since 1955.

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*On leave 1968-69.

LLOYD KEETON, A.B., M.A. **Assistant Professor of Social Science**

A.B., Georgetown College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1965.

MARTHA KEETON, A.B., M.A. **Instructor of Business Education and Office Administration**

A.B., Georgetown College; M.A., University of Kentucky. At Eastern since 1966.

JOHN KEIFER, B.S., M.S., Ph.D. **Assistant Professor of Geology**

B.S., St. Joseph's College; M.S., Ph.D., University of Illinois. At Eastern since 1967.

LETTY L. KELLY, B.E., M.A. **Assistant Professor of Elementary Education Supervising Teacher, Laboratory School**

B.E., Fresno State, California; M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College. At Eastern since 1964.

KARL KEMP, A.B., M.A. **Assistant Professor of Economics**

A.B., M.A., Western Kentucky State College; additional graduate work at Western Kentucky State College, Eastern Kentucky State College. At Eastern since 1963.

ROY KIDD, B.S., M.A. **Assistant Professor of Health and Physical Education, Head Football Coach**

B.S., M.A., Eastern Kentucky State College. At Eastern since 1963.

***SE JIN KIM, B.A., M.A., Ph.D.** **Associate Professor of Political Science**

B.A., Southwestern at Memphis; M.A., Ph.D., University of Massachusetts. At Eastern since 1962.

ROBERT G. KING, A.B., M.A., Ph.D. **Chairman, Department of Speech and Drama**
Professor of Speech and Drama

A.B., Georgetown College; M.A., Teachers College, Columbia University; Ph.D., Columbia University. At Eastern since 1965.

EDWARD KIRK, B.A., M.F.A. **Instructor of Art**

B.A., Denison University of Ohio; M.F.A., Ohio University; additional graduate work, Ohio University. At Eastern since 1966.

DOROTHY KIRKPATRICK, B.S., M.S. **Assistant Professor of Health and Physical Education**

B.S., Winthrop College; M.S., University of Tennessee. At Eastern since 1962.

GLEN A. W. KLEINE, B.S., M.A., **Assistant Professor of English**

B.S., M.A., University of Missouri; additional graduate work at the University of Missouri. At Eastern since 1967.

***On leave 1968-69**

CAROLINE KREBS, B.A., M.A. **Instructor of Social Science**

B.A., Trinity College; M.A., University of Kentucky. At Eastern since 1968.

KARL FRANCIS KUHN, B.A., M.S. **Instructor of Physics**

B.A., Bellarmine College; M.S., University of Kentucky. At Eastern since 1966.

ROBERT L. LADD, A.B., M.A. **Associate Professor of Foreign Languages and Education**

A.B., Carson Newman College; M.A., George Peabody College; additional graduate work, Xavier University, Peabody College, University of Kentucky, Miami University. At Eastern since 1963.

H. H. LaFUZE, A.B., M.S., Ph.D. **Chairman, Department of Biology**
Professor of Biology

A.B., DePauw University; M.S., Ph.D., State University of Iowa; post graduate work, Northwestern University. At Eastern since 1939.

CHRISTOPHER E. LAIRD, B.S., M.S. **Assistant Professor of Physics**

B.S., M.S., University of Alabama; additional graduate work at the University of Alabama. At Eastern since 1967.

***NANCY LANCASTER, B.M., M.M.** **Assistant Professor of Music**

B.M., M.M., University of Oklahoma; additional graduate work, University of Southern California. At Eastern since 1962.

***THOMAS S. LANCASTER, B.M.E., M.M.** **Instructor of Music**

B.M.E., M.M., Indiana University; additional graduate work, University of Illinois. At Eastern since 1964.

BENNIE R. LANE, B.A., M.A., Ph.D. **Chairman, Department of Mathematics**
Professor of Mathematics

B.A., M.A., Colorado State College; Ph.D., George Peabody College. At Eastern since 1966.

ROBERT S. LARANCE, B.S., M.S. **Associate Professor of Biology**

B.S., Louisiana Polytechnic Institute; M.S., Louisiana State University; additional graduate work, Louisiana State University. At Eastern since 1956.

CHARLES E. LASH, B.S., M.A. **Assistant Professor of Industrial Education**

B.S., M.A., Murray State University; additional graduate work, Murray State University. At Eastern since 1967.

JACK P. LATHAM, B.A., M.A. **Instructor of English**

B.A., Oklahoma City University; M.A., University of Arizona. At Eastern since 1967.

ROBERT M. LATHROP, B.S., M.A. **Assistant Professor of Geography**

B.S., University of Kentucky; M.A., University of Georgia; additional graduate work, University of Georgia. At Eastern since 1964.

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*On leave 1968-69.

CHARLES LATTA, B.A., M.A. **Assistant Professor of English**
B.A., M.A., University of Louisville. At Eastern since 1966.

LESLIE H. LEACH, B.S., M.A. **Director of Traffic Safety Institute**
B.S., Eastern Kentucky University; M.A., Western Kentucky University. At Eastern since 1967.

JAMES A. LEE, A.B., M.A., Ph.D. **Chairman, Department of Psychology**
Professor of Psychology
A.B., University of Kentucky; M.A., Wayne State University; Ph.D., Purdue University. At Eastern since 1967.

WARREN L. LEFFARD, B.S.Ed., M.Ed. **Associate Professor of Industrial Education**
B.S.Ed., M.Ed., Auburn University; additional graduate work at University of Missouri. At Eastern since 1967.

CLYDE J. LEWIS, A.B., M.A., Ph.D. **Dean, Central University College**
Professor of History
A.B., Eastern Kentucky State College; M.A., University of Cincinnati; Ph.D., University of Kentucky. At Eastern since 1946.

RAYMOND J. LEWIS, B.S., M.A. **Assistant Professor of Social Science**
B.S., M.A., Kent State University; additional graduate work, Kent State University, University of Arizona, and the University of Kentucky. At Eastern since 1965.

MARTHA L. LILLARD, B.S., M.S. **Instructor of Library Science**
Supervising Teacher, Laboratory School
B.S., M.S., University of Tennessee; additional graduate work, Eastern Kentucky University. At Eastern since 1966.

JOHN M. LONG, A.B., M.A., Ph.D. **Assistant Professor of English**
A.B., Furman University; M.A., Northeastern University; Ph.D., University of North Carolina. At Eastern since 1967.

JACK B. LOZIER, A.B., Ph.D. **Assistant Professor of Biology**
A.B., Ph.D., Colorado State University. At Eastern since 1967.

HEINO A. LUTS, B.S., M.S., Ph.D. **Associate Professor of Chemistry**
B.S., Upsala (Sweden); M.S., Ph.D., University of Mississippi. At Eastern since 1967.

JACK A. LUY, B.S., M.S., Ed.D. **Associate Dean, College of Applied Arts and Technology**
Professor of Industrial Arts
B.S., M.S., Stout State University; Ed.D., University of Missouri. At Eastern since 1964.

LOUISE BOOTH LYONS, B.S., M.A., Ed.S. **Assistant Professor of Library Science**
B.S., M.A., East Tennessee State College; Ed.S., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1961.

LESLIE C. McCAMMON, B.S., M.S. **Assistant Professor of Health and Physical Education**
B.S., M.S., Indiana University; additional graduate work, Indiana University. At Eastern since 1966.

RUTH A. McCANN, B.S., M.A. **Assistant Professor of Business**
Supervising Teacher, Laboratory School

B.S., M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky University and University of Kentucky. At Eastern since 1962.

JAMES McCHESNEY, B.S., M.S., Dir.R. **Assistant Professor of Recreation and Physical Education**

B.S., M.S., Western Kentucky University; Dir.R., Indiana University. At Eastern since 1966.

ALVIN McGLASSON, B.S., M.S. **Associate Professor of Mathematics**

B.S., Eastern Kentucky State College; M.S., University of Kentucky; additional graduate work, University of Kansas, University of Missouri, Michigan State University. At Eastern since 1949.

MARY McGLASSON, A.B., M.A., **Instructor of Biology**

A.B., M.A., Eastern Kentucky University; additional graduate work at Eastern Kentucky University. At Eastern since 1967.

WILLARD THOMAS McHONE, A.B., M.Ed. **Assistant Professor of Art and Education**

A.B., Eastern Kentucky State College; M.Ed., University of Louisville; additional graduate work, University of Kentucky, Indiana University. At Eastern since 1955.

ALEX GENTRY McILVAINE, JR., B.S., M.A. **Professor of Accounting**

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1947.

FRANCES M. McPHERSON, B.Mus., M.Mus. **Associate Professor of Music**

B.Mus., Lindenwood College; M.Mus., Michigan State College; student, Rudolph Ganz, John Thompson, Horner Conservatory; Academie Marshall, Barcelona, Spain; Xavier Montsalvatge, composition; Aliia de Larrocha, piano. At Eastern since 1944.

ARTHUR J. MANGUS, JR., A.B., M.A. **Assistant Professor of English**

A.B., Concord College; M.A., Marshall College; additional graduate work, University of Kentucky. At Eastern since 1959.

PHILIP H. MANKIN, B.S., M.A. **Associate Professor of English**

B.S., M.A., George Peabody College for Teachers; additional graduate work, Vanderbilt University. At Eastern since 1957.

WALTER MARCUM, B.S., M.A. **Associate Professor of Education**

B.S., Union College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1964.

WADE E. MARLETTE, A.B. **Assistant Professor of Philosophy**

A.B., Erskine College; additional graduate work, University of North Carolina. At Eastern since 1966.

HENRY G. MARTIN, B.A., M.A., Ed.D. **Vice-President for Student Affairs**
Dean of Students

B.A., Berea College; M.A., University of Kentucky; Ed.D., University of Tennessee. At Eastern since 1955.

LARRY O. MARTIN, B.S., M.A. **Assistant Professor of Industrial Arts**
Director of Auxiliary Enterprises

B.S., M.A., Eastern Kentucky State College. At Eastern since 1960.

RODOLFO MARTINEZ, B.S., M.A., Ph.D. **Assistant Professor of Political Science**

B.S., University of Utah; M.A., University of Texas; Ph.D., University of Utah. At Eastern since 1968.

MILDRED MAUPIN, B.S., M.A. **Assistant Professor of Health and Physical Education**

B.S., Appalachian State Teachers College; M.A., Eastern Kentucky State College. At Eastern since 1962.

JIMMIE LONNIE MEECE, A.B., M.A. **Assistant Professor of Speech**

A.B., Mississippi State College for Women; M.A., University of Illinois; additional graduate work, University of Missouri. At Eastern since 1966.

DAVID M. MEEKS, B.S., M.B.A. **Instructor of Management and Finance**

B.S., Lambuth College; M.B.A., Memphis State University. At Eastern since 1966.

JOHN L. MEISENHEIMER, B.A., Ph.D. **Professor of Chemistry**

B.A., Evansville College; PhD., Indiana University; post-doctoral research, Indiana University. At Eastern since 1963.

PATRICIA MELODY, A.B., M.A. **Instructor of Dramma and Speech**

A.B., M.A., University of Kansas. At Eastern since 1967.

VICTOR MESSMER, B.S., M.B.A. **Assistant Professor of Accounting**

B.S., Eastern Kentucky State College; M.B.A., University of Kentucky; additional graduate work, Case Institute of Technology, University of Illinois. At Eastern since 1961.

GLORIA S. METCALF, B.S., M.A. **Assistant Professor of Elementary Education, Supervising Teacher, Laboratory School**

B.S., M.A., Eastern Kentucky University. Additional graduate work at Eastern Kentucky University. At Eastern since 1964.

GEORGE G. MILLER, B.B.A., M.B.A., Ph.D. **Associate Dean, College of Business, Chairman, Department of Business Administration**
Professor of Business Administration

B.B.A., Texas College of Arts and Industries; M.B.A., Ph.D., University of Texas. At Eastern since 1966.

GERALD W. MILLER, B.S., M.A. **Assistant Professor of Art and Education**

B.S., Ball State Teachers College; M.A., University of Denver; additional graduate work, Indiana University, Michigan State University, University of Denver. At Eastern since 1961.

ROBERT S. MILLER, A.B., A.M. **Assistant Professor of Social Science**
A.B., Oakland City College; A.M., Indiana University; additional graduate work, University of Kentucky. At Eastern since 1967.

***DONALD BENSON MILLS, B.S., M.A.** **Assistant Professor of Education**
B.S., M.A., Eastern Kentucky State College; additional graduate work at University of Maryland. At Eastern since 1965.

MARGARET H. MOBERLY, B.S., M.B.A. **Associate Professor of Business Education and Office Administration**
B.S., Eastern Kentucky State College; M.B.A., University of Chicago; additional graduate work, University of Kentucky. At Eastern since 1946.

***DALE R. MONSEBROTEN, Ph.B., M.S.** **Instructor of Geography**
Ph.B., M.S., University of Dakota. At Eastern since 1966.

WILMER EDMUND MOOMAW, B.A. **Assistant Professor of Political Science**
B.A., University of Virginia; additional graduate work at University of Virginia. At Eastern since 1966.

WILLIE MOSS, B.S., M.A. **Associate Professor of Home Economics**
B.S., Western Kentucky State College; M.A., University of Kentucky; additional graduate work, University of Kentucky, Merrill Palmer School, University of Tennessee. At Eastern since 1952.

EDSEL R. MOUNTZ, B.S., M.A. **Assistant Professor of Business Education and Office Administration**
B.S., Eastern Kentucky State College; M.A., University of Kentucky; additional graduate work at University of Kentucky. At Eastern since 1956.

JOHN M. MURPHY, A.B., M.A. **Assistant Professor of English**
A.B., M.A., The University of Oklahoma; additional graduate work, University of Oklahoma. At Eastern since 1967.

FRANK S. MURRAY, B.S., A.M., Ph.D. **Assistant Professor of Psychology**
B.S., College of William and Mary; A.M., Washington University; Ph.D., University of Kentucky. At Eastern since 1966.

BERT MUTERSBAUGH, A.B., M.A. **Assistant Professor of History**
A.B., M.A., University of Missouri; additional graduate work at University of Missouri. At Eastern since 1967.

THOMAS D. MYERS, B.S., M.S., Ed.D. **Coordinator of Allied Health Programs**
Associate Professor of Health and Physical Education
B.S., M.S., Bowling Green State University; Ed.D., Temple University. At Eastern since 1964.

THOMAS E. MYERS, B.A., M.A. **Associate Professor of Industrial Arts**
B.A., M.A., North Texas State University; additional graduate work, University of Kentucky and Colorado State College. At Eastern since 1952.

***On leave 1968-69**

DIXIE BALE MYLUM, A.B., M.A. **Instructor of Social Science**
A.B., Meredith College; M.A., Eastern Kentucky State College. At Eastern since 1965.

BOBBY NAYLE, B.S., M.A. **Instructor of Mathematics**
B.S., University of Kentucky; M.A., Western Kentucky State College. At Eastern since 1967.

CHARLES L. NELSON, A.B., M.A., Ph.D. **Chairman, Department of Foreign Languages and Professor of Spanish**
A.B., M.A., Ph.D., University of North Carolina at Chapel Hill. At Eastern since 1967.

VIRGINIA NETT, B.A., M.A., Ph.D. **Assistant Professor of German**
B.A., Alverno College; M.A., Ph.D., University of Colorado. At Eastern since 1968.

WILLIAM E. NEWBOLT, B.S., M.A. **Professor of Accounting**
B.S., Georgetown College; M.A., University of Kentucky; additional graduate work at Northwestern University, University of Kentucky and Indiana University. At Eastern since 1967.

EMMA VIVIAN NEWPORT, B.A., M.A., Ph.D. **Associate Professor of English**
B.A., M.A., University of Arizona; Ph.D., George Peabody College for Teachers. At Eastern since 1965.

DAVID NG, B.S., M.S., M.A., **Assistant Professor of Mathematics**
B.S., Hardin Simmons University; M.S., University of Arkansas; M.A., Appalachian State College; additional graduate work at University of Florida. At Eastern since 1967.

JOSEPHINE MAZZIE NIMS, A.B., M.A. **Instructor of English**
A.B., M.A., University of Kentucky. At Eastern since 1965.

WALTER M. ODUM, B.A., M.A. **Assistant Professor of History**
B.A., M.A., Florida State University; additional graduate work, Florida State University. At Eastern since 1964.

FREDERIC D. OGDEN, A.B., Ph.D. **Dean, College of Arts and Sciences Professor of Political Science**
A.B., Tusculum College; Ph.D., Johns Hopkins University. At Eastern since 1961.

ROBERT L. OGLE, B.S., M.S., Ed.D. **Professor of Industrial Education**
B.S., M.S., Ed.D., University of Tennessee. At Eastern since 1966.

JANET OLDHAM, B.S., M.S. **Assistant Professor of English**
B.S., North Central College; M.S., University of Illinois; additional graduate work, Eastern Kentucky State College, University of Kentucky, Columbia University. At Eastern since 1962.

JAMES N. O'NEILL, B.A., M.A., Ph.D. **Assistant Professor of History**
B.A., University of Mississippi; M.A., Northwestern University; Ph.D., University of Virginia. At Eastern since 1966.

CECIL C. ORCHARD, B.A., M.A. **Assistant Professor of Social Science and History**

B.A., Brigham Young University; M.A., Brandeis University; additional graduate work at Brandeis University. At Eastern since 1966.

EDDIE P. ORT, B.S., M.A., Ed.D. **Chairman, Department of Education**
Professor of Education

B.S., Georgia Southern College; M.A., Ed.D., George Peabody College for Teachers. At Eastern since 1966.

GENEVA W. OWENS, A.B., M.A. **Assistant Professor of English and Education**

A.B., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky, Eastern Kentucky State College. At Eastern since 1960.

WILLIS M. PARKHURST, A.B., M.S. **Associate Professor of Psychology**

A.B., M.S., Indiana State Teachers College; additional graduate work, Purdue University, Barry College. At Eastern since 1955.

JUDITH C. PARSLEY, B.A., M.A. **Instructor of Accounting**

B.A., University of Kentucky; M.A., Eastern Kentucky University. At Eastern since 1967.

ALFRED L. PATRICK, B.S., M.Ed., Ed.D. **Chairman, Department of Business Education and Office Administration**
Professor of Business Education

B.S., M.Ed., Virginia Polytechnic Institute; Ed.D., University of Tennessee. At Eastern since 1965.

DALE R. PATRICK, B.S., M.S. **Associate Professor of Industrial Arts**

B.S., M.S., Indiana State Teachers College; additional graduate work, Indiana State University. At Eastern since 1956.

KERMIT PATTERSON, B.S., M.B.A. **Assistant Professor of Business Administration**

B.S., M.B.A., University of Kentucky; additional graduate work, Case Institute of Technology, University of Kentucky. At Eastern since 1955.

RAMELLE F. PATTERSON, B.S., M.A., **Assistant Professor of Speech**

B.S., M.A., University of Kentucky; additional graduate work at the University of Kentucky. At Eastern since 1967.

THOMAS D. PEARSON, B.S., M.A. **Assistant Professor of Economics**

B.S., Lamar State College; M.A., Louisiana State University. At Eastern since 1966.

NANCY D. PEEL, B.S., M.A., Ed.D. **Assistant Professor of Education**

B.S., M.A., University of Kentucky; Ed.D., Indiana University. At Eastern since 1967.

FREDERICK P. PETERSON, B.M., B.M.E., M.M., **Instructor of Music**

B.M., B.M.E., M.M., Indiana University. At Eastern since 1967.

NICHOLAS P. PETERSON, B.S., M.A. **Assistant Professor of Sociology**

B.S., M.A., Ohio State University; additional graduate work at Ohio State University. At Eastern since 1967.

DWYNAL B. PETTENGILL, A.B., M.A., Ph.D. **Chairman, Department of Political Science**
Professor of Political Science

A.B., M.A., University of Florida; Ph.D., The Johns Hopkins University. At Eastern since 1965.

IONA M. PETTENGILL, R.N., B.S. **Instructor of Nursing**

Diploma, Maine General Hospital School of Nursing; B.S., University of Maryland. At Eastern since 1965.

JUANITA PHILLIPS, B.A., B.S.L.S., Ed.S. **Chairman, Department of Library Science**
Associate Professor of Library Science

B.A., West Texas State College; B.S.L.S., Ed.S., George Peabody College for Teachers. At Eastern since 1966.

ODELL PHILLIPS, B.S., M.S., Ph.D. **Associate Professor of Health and Physical Education**

B.S., Murray State College; M.S., University of Alabama; Ph.D., Florida State University. At Eastern since 1965.

***RONALD E. PIERCE, B.S., M.S.** **Instructor of Mathematics**

B.S., Morehead State College; M.S., University of Kentucky. At Eastern since 1964.

GERALDINE J. POLVINO, B.S., M.A. **Assistant Professor of Physical Education**

B.S., State University College at Brockport; M.A., Eastern Kentucky State College. At Eastern since 1966.

ROBERT E. POSEY, B.A., M.S **Director, School of Law Enforcement**
Associate Professor

B.A., Georgetown College; M.S., Michigan State University. At Eastern since 1966.

J. C. POWELL, A.B., M.Ed. **Associate Professor of Education**
Executive Dean

A.B., University of Kentucky; M.Ed., University of Louisville; additional graduate work, University of Kentucky. At Eastern since 1960.

GLENN E. PRESNELL, B.S. **Director of Athletics**
Assistant Professor of Health and Physical Education

B.S., University of Nebraska; additional graduate work, University of Nebraska, Eastern Kentucky State College. At Eastern since 1947.

HENRY F. PRYSE, A.B., M.A. **Director of College-School Relations**
Assistant Professor of Social Science

A.B., Centre College; M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College, University of Kentucky. At Eastern since 1959.

DENNIS E. QUILLEN, B.S., M.S. **Assistant Professor of Geography**

B.S., M.S., University of Tennessee; additional graduate work at the University of Tennessee. At Eastern since 1967.

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*On leave 1968-69

ELIZABETH RAGLAND, A.B., M.A. **Assistant Professor of Mathematics**
Supervising Teacher, Laboratory School

A.B., M.A., University of Kentucky; additional graduate work, University of Kentucky and University of Florida. At Eastern since 1967.

VERA V. RALEIGH, A.B., M.A. **Associate Professor of Geography**

A.B., Eastern Kentucky State College; M.A., George Peabody College for Teachers; additional graduate work, George Peabody College for Teachers. At Eastern since 1959.

***IMOGENE RAMSEY, B.S., M.A.** **Assistant Professor of Education**

B.S., M.A., Eastern Kentucky State College; additional graduate work at University of Kentucky and Eastern Kentucky State College. At Eastern since 1965.

ROBERT W. RANDALL, A.B., M.A. **Assistant Professor of History and Education**

A.B., Wheaton College; M.A., University of Kentucky. At Eastern since 1967.

RUTH RANKIN, A.B., M.A. **Assistant Professor of English and Social Studies**
Supervising Teacher, Laboratory School

A.B., Asbury College; M.A., University of Kentucky; additional graduate work, University of Kentucky, Eastern Kentucky University. At Eastern since 1964.

ALLOT SIMONE REAGOR, B.A., M.A. **Assistant Professor of Social Science and History**

B.A., Lynchburg College; M.A., Smith College; additional graduate work, Oxford University (England). At Eastern since 1966.

HELEN M. REED, A.B., B.A., M.A., Ed.D. **Director of Laboratory School**
Professor of Education

A.B., State College of Iowa; B.A., M.A., George Peabody College for Teachers; Ed.D., Indiana University. At Eastern since 1965.

GABRIEL ANGEL DE LOS REYES, LL.B., LL.D., M.A. **Assistant Professor of Foreign Language**

LL.B., LL.D., University of Havana, Cuba; M.A., Louisiana State University; additional graduate work at Louisiana State University. At Eastern since 1965.

JAMES E. RHEIN, B.S., M.A. **Assistant Professor of Art and Education**

B.S., M.A., Eastern Kentucky State College; additional graduate work, Miami University, Indiana University. At Eastern since 1963.

BYNO R. RHODES, B.A., M.A., Ph.D. **Professor of English**

B.A., M.A., Ph.D., Vanderbilt University. At Eastern since 1958.

WALTER MASON RICHARD, B.B.A., M.B.A. **Assistant Professor of Accounting**

B.B.A., M.B.A., Memphis State University. At Eastern since 1967.

*On leave 1968-69.

HAROLD RIGBY, B.S., M.A. Assistant Professor of Music

B.S., M.A., Eastern Kentucky State College. At Eastern since 1933.

ROBERT RISELING, B.M.E., M.M. Assistant Professor of Music

B.M.E., Illinois Wesleyan University; M.M., University of Texas; additional graduate work, University of Texas. At Eastern since 1966.

GENE BAILEY ROBBINS Chief Engineer
Division of Instructional Services

Graduate of Coyne Radio and Television School. At Eastern since 1966.

GEORGE W. ROBINSON, B.S., M.S., Ph.D Chairman, Department of History
Professor of History

B.S., M.S., Ph.D., University of Wisconsin. At Eastern since 1956.

HAROLD E. ROBISON, B.M.Ed., M.Mus Assistant Professor of Music

B.M.Ed., M.Mus., West Virginia University. At Eastern since 1960.

MARGARET E. ROSER, A.B., M.A. Assistant Professor of
Library Science

A.B., M.A., University of Kentucky. Additional graduate work at Eastern Kentucky State College. At Eastern since 1965.

CHARLES L. ROSS, A.B., M.A., Ed.D. Professor of Education

A.B., Tusculum College; M.A., George Peabody College; Ed.D., University of Tennessee. At Eastern since 1963.

LEON ROTTERSMAN, B.A., M.A., Ph.D. Associate Professor of Psychology

B.A., New York University; M.A., University of Nebraska; Ph.D., University of Denver. At Eastern since 1966.

JOHN D. ROWLETT, B.S., M.S., Ed.D. Dean, College of Applied
Arts and Technology
Professor of Industrial Arts

B.S., M.S., North Texas State College; Ed.D., University of Illinois. At Eastern since 1951.

WARD J. RUDERSDORF, B.S., M.S., Ph.D. Associate Professor of Biology

B.S., Central State Teachers College; M.S., Utah State University; Ph.D., Michigan State University. At Eastern since 1967.

DARNELL SALYER, B.S., Ph.D. Professor of Chemistry

B.S., Eastern Kentucky State College; Ph.D., Ohio State University. At Eastern since 1959.

ETHEL SAMS, B.S., M.A. **Assistant Professor of Education**

B.S., Eastern Kentucky State College; M.A., George Peabody College; additional graduate work, University of Louisville and Eastern Kentucky State College. At Eastern since 1963.

RICHARD SCHERUBEL, B.A., M.A. **Instructor of Art**

B.A., Luther College; M.A., University of Iowa; additional graduate work, University of Iowa. At Eastern since 1966.

PETER A. SCHNEIDER, A.B., M.A. **Instructor of Speech**

A.B., Queen's College; M.A., Ball State University. At Eastern since 1967.

LEONARD C. SCHOCKLING, A.B., M.A., **Instructor of Philosophy**

A.B., M.A., Duquesne University. At Eastern since 1967.

EUGENE E. SCHROEDER, B.S., M.S., Ph.D. **Associate Professor of Biology**

B.S., St. Olaf College; M.S., University of New Mexico; Ph.D., University of Missouri. At Eastern since 1967.

JOSEPH R. SCHWENDEMAN, B.S., M.A., Ph.D. **Distinguished Professor of Geography**
Consultant and Advisor for Professional Activities

B.S., Ohio University; M.A., Ph.D., Clark University. At Eastern since 1967.

JOSEPH R. SCHWENDEMAN, JR., B.S., M.S., Ph.D. **Chairman, Department of Geography and Geology**
Professor of Geography and Geology

B.S., M.S., University of Kentucky; Ph.D., Indiana University. At Eastern since 1966.

FRANCESCO G. SCORSONE, B.A., Ph.D. **Professor of Mathematics**

B.A., Umberto I, Palermo, Italy; Ph.D., Palermo University. At Eastern since 1965.

BRETT D. SCOTT, B.S., M.Ed. **Assistant Professor of Law Enforcement**

B.S., Pikeville College; M.Ed., University of Louisville; additional graduate work, Eastern Kentucky University. At Eastern since 1967.

CHARLES E. SCRUGGS, A.B., M.A. **Assistant Professor of French**

A.B., Transylvania College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1967.

MILOS M. SEBOR, LL.D., M.A., Ph.D. **Professor of Geography**

LL.D., Charles University in Prague, Czechoslovakia; M.A., McGill University in Montreal, Canada; Ph.D., Polish University in Exile, London, England. At Eastern since 1968.

EDWARD SEXTON, A.B., M.S. **Instructor of Physics**

A.B., Austin Peay State College; M.S., University of Georgia. At Eastern since 1965.

WILLIAM E. SEXTON, B.S., M.Ed., Ed.D. Chairman, Department of Industrial Technology
Professor of Industrial Technology

B.S., Eastern Kentucky State College; M.Ed., University of Illinois; Ed.D., University of Missouri. At Eastern since 1957.

PAUL SEYFRIT, B.S., M.A. Dean of Men
Assistant Professor of Psychology

B.S., M.A., University of Louisville; additional graduate work University of Louisville. At Eastern since 1965.

DONALD SHADOAN, B.S., M.S., Ph.D. Chairman, Department of Economics
Professor of Economics

B.S., M.S., Ph.D., University of Kentucky. At Eastern since 1962.

WILLIAM A. SHANNON, B.S., M.A. Assistant Professor of Health and Physical Education, Assistant Football Coach

B.S., M.A., Eastern Kentucky ~~State~~ College; additional graduate work at University of Virginia, University of Kentucky, Eastern Kentucky State College. At Eastern since 1964.

DANIEL N. SHINDELBOWER, A.B., M.A. Chairman, Department of Art
Associate Professor of Art

A.B., M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1961.

LARRY D. SHORT, B.S., M.S. Instructor of Mathematics

B.S., Eastern Kentucky University; M.S., Northwestern University; additional graduate work at the University of Kentucky. At Eastern since 1967.

PAUL SHOTT, B.S., M.Ed. Instructor of Social Science

B.S., M.Ed., Indiana University of Pennsylvania; additional graduate work, Rutgers University, University of Arizona, University of Washington. At Eastern since 1967.

SELMA ANN SIEKMAN, B.S., M.A. Instructor of Health and Physical Education
Supervising Teacher Laboratory School

B.S., M.A., Eastern Kentucky University. At Eastern since 1967.

EVA I. SINGLETON, B.A., M.A. Instructor of English

B.A., Berea College; M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1964.

***EVELYN SLATER, B.S., M.S.** Associate Professor of Home Economics

B.S., M.S., University of Kentucky; additional graduate work, Columbia University. At Eastern since 1939.

THERESA E. SLAVOSKY, B.A., M.A. Assistant Professor of English

B.A., Ohio Wesleyan University; M.A., Ohio State University; additional graduate work, University of Cincinnati, Miami University and Columbia University. At Eastern since 1965.

HARRY M. SMILEY, B.S., M.S., Ph.D. Associate Professor of Chemistry

B.S., Eastern Kentucky University; M.S., Ph.D., University of Kentucky. At Eastern since 1967.

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*Terminal leave fall semester 1968-69

CLAUDE K. SMITH, B.S., M.R.E., M.B.A., C.P.A. **Chairman, Department of Accounting**
Professor of Accounting

B.S., Eastern Kentucky State College; M.R.E., Southern Baptist Theological Seminary; M.B.A., University of Kentucky; C.P.A., Indiana, Kentucky. At Eastern since 1964.

CONAN N. SMITH, B.S., M.S. **Assistant Professor of Health, Physical Education**
Track Coach

B.S., Southern Illinois University; M.S., Indiana University. At Eastern since 1964.

DAVID SMITH, A.B., M.S., Ph.D. **Assistant Professor of Biology**

A.B., Eastern Baptist College; M.S., Ph.D., University of Michigan. At Eastern since 1967.

DONALD HINSLEA SMITH, A.B. **Administrative Assistant**
Office of Student Affairs

A.B., Eastern Kentucky State College. At Eastern since 1966.

DOROTHY H. SMITH, B.S., M.A. **Instructor of Elementary Education**
Supervising Teacher, Laboratory School

Aroostook State Teachers College; Eliot-Pearson School; B.S., M.A., Eastern Kentucky University. At Eastern since 1966.

EVANGELINE WALKER SMITH, B.S., M.A. **Instructor of English**
Supervising Teacher, Laboratory School

B.S., East Tennessee State University; M.A., Eastern Kentucky University. At Eastern since 1967.

KATHLEEN SMITH, B.A., M.A. **Instructor of English**

B.A., Eastern Kentucky State College; M.A., University of Kentucky; additional graduate work, Eastern Kentucky State College and University of Kentucky. At Eastern since 1966.

JAMES G. SNOWDEN, A.B., M.A., Ed.D. **Professor of Psychology**

A.B., M.A., University of Kentucky; Ed.D., Indiana University. At Eastern since 1954.

WALTER D. SOROCHAN, B.P.E., M.Sc. **Assistant Professor of Health and Physical Education**

B.P.E., University of British Columbia; M.Sc., University of Oregon; additional graduate work at Indiana University, Illinois State University. At Eastern since 1964.

BARBARA SOWDERS, A.B., M.A.Ed., M.A. **Instructor of English**

A.B., M.A.Ed., M.A., Eastern Kentucky University. At Eastern since 1967.

***ALAN P. STAPLES, B.Mus., M.Mus.** **Assistant Professor of Music**

B.Mus., M.Mus., Eastman School of Music, University of Rochester; additional graduate work, Eastman School of Music, University of Rochester. At Eastern since 1961.

*On leave 1968-69

ANNA M. STARK, A.B., M.A. **Assistant Professor of Education**

A.B., University of Kentucky; M.A., Teachers College, Columbia University; additional graduate work, University of Kentucky. At Eastern since 1963.

BEN STARK, A.B., M.A., Diploma (Social Work) **Associate Professor of Sociology**

A.B., M.A., University of Kentucky, Diploma in Social Work, New York School of Social Work. At Eastern since 1967.

JULIA B. STEANSON, A.B., M.A. **Assistant Professor of Spanish**

A.B., Stetson; M.A., University of North Carolina. At Eastern since 1967.

ROBERT E. STEBBINS, B.A., B.D., M.A., Ph.D. **Associate Professor of History**

B.A., Bowling Green State University; B.D., Yale University; M.A., Ph.D., University of Minnesota. At Eastern since 1963.

SYDNEY J. STEPHENS, B.S., M.S. **Assistant Professor of Mathematics**

B.S., Eastern Kentucky State College; M.S., University of Illinois; additional graduate work, University of Wyoming, University of Illinois, University of Kentucky. At Eastern since 1956.

PATRICIA STEPHENSON, B.Mus.Ed., M.Mus. **Assistant Professor of Music**

B.Mus.Ed., M.Mus., Northwestern University; additional graduate work at Ball State University, Indiana University, Teachers College, Columbia University. At Eastern since 1967.

JAMES WILLIAM STOCKER, B.S., M.S. **Associate Professor of Agriculture**

B.S., Eastern Kentucky State College; M.S., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1946.

ROBERT C. STONE, B.S., LL.B. **Executive Director, Kentucky Peace Officers Standards and Training Council and Lecturer, School of Law Enforcement**

B.S., LL.B., University of Kentucky. At Eastern since 1966.

THOMAS F. STOVALL, B.A., M.A., Ph.D. **Dean of the Faculties**
Vice President for Academic Affairs

B.A., University of Tennessee; M.A., Ph.D., George Peabody College for Teachers. At Eastern since 1966.

FLORENCE B. STRATEMEYER, B.S., M.A., Ph.D., Ed.D., Ed.D. **Distinguished Professor of Education**

B.S., M.A., Ph.D., Teachers College, Columbia University; Ed.D., Trenton State College; Ed.D., Western Michigan University. At Eastern since 1965.

GUY R. STRONG, B.S., M.A. **Assistant Professor of Health and Physical Education**
Head Basketball Coach

B.S., M.A., Eastern Kentucky State College. At Eastern since 1967.

JESSE HILTON STUART, A.B., Lit.D., LL.D., L.H.D. **Author in Residence**

A.B., Lincoln Memorial College; Lit.D., University of Kentucky, Marietta College, Morris Harvey College; Eastern Kentucky University; LL.D., Baylor University; L.H.D., Lincoln Memorial University. At Eastern since 1966.

JAMES C. STULL, B.S.Ed., M.S., Ph.D. **Associate Professor of Education**

B.S.Ed., Bowling Green State University; M.S., Indiana University; Ph.D., University of Toledo. At Eastern since 1965.

ELAINE SUMMA, B.S., M.S. **Instructor of Health and Physical Education**

B.S., Tennessee Polytechnic Institute; M.S., University of Tennessee. At Eastern since 1964.

ROBERT W. SURPLUS, B.A., M.A., Ed.D. **Associate Professor of Music and Education**

B.A., Susquehanna University; M.A., Ed.D., Teachers College, Columbia University. At Eastern since 1965.

GEORGE W. SUTTON, A.B., M.A., Ph.D. **Associate Professor of English**

A.B., Georgetown College; M.A., Ph.D., University of Mississippi. At Eastern since 1967.

WILLARD E. SWINFORD, B.S., M.A. **Associate Professor of Industrial Education**

B.S., M.A., Eastern Kentucky State College; additional graduate work at Colorado State College and Illinois State University. At Eastern since 1955.

CARL SWORD, B.S., M.A. **Assistant Professor of English and Social Studies**
Supervising Teacher, Laboratory School

B.S., Pikeville College; M.A., Eastern Kentucky University; additional graduate work, Eastern Kentucky University. At Eastern since 1966.

LEONARD C. TAYLOR, B.A., M.A. **Registrar**
Associate Professor of Education

B.A., M.A., University of Kentucky; additional graduate work, University of Kentucky and Teachers College, Columbia University. At Eastern since 1966.

MARY LOU TAYLOR, B.S., M.A. **Assistant Professor of Social Science**

B.S., Southern Illinois University; M.A., Washington University, St. Louis, Missouri; additional graduate work, Washington University. At Eastern since 1964.

MORRIS D. TAYLOR, B.S., M.S., Ph.D. **Associate Professor of Chemistry and Education**

B.S., M.S., Ph.D., Purdue University. At Eastern since 1963.

HARRY F. THOMPSON, B.A., M.A. **Associate Professor of Drama**

B.A., Georgetown College; M.A., Baylor University; additional graduate work at Indiana University. At Eastern since 1967.

RALPH J. THOMPSON, B.S., M.S., Ph.D. **Professor of Chemistry**

B.S., M.S., East Texas State College; Ph.D., University of Texas; additional post doctoral research, Indiana University. At Eastern since 1965.

JAMES W. THURMAN, B.S., M.A. **Director of Alumni Affairs**
Assistant Professor of Health and Physical Education

B.S., M.A., Eastern Kentucky State College. At Eastern since 1962.

KELLY THURMAN, A.B., M.A., Ph.D. **Chairman, Department of English**
Professor of English

A.B., Western Kentucky State College; M.A., University of Kentucky; Ph.D., University of Iowa. At Eastern since 1966.

JUANITA TODD, A.B., M.A. **Assistant Professor of Art**

A.B., Georgetown College; M.A., University of Kentucky; additional graduate work, Indiana University, University of Kentucky. At Eastern since 1960.

DANIEL LEE TORBETT, B.S., M.S., Ed.D. **Associate Professor of Industrial Technology**

B.S., M.S., Arkansas State Teachers College; Ed.D., University of Missouri. At Eastern since 1965.

KAI-FU TSAO, B.A., M.A., Ph.D. **Assistant Professor of History**

B.A., National Chengchi University, Chungking and Nanking, China; M.A., University of South Carolina; Ph.D., Columbia University. At Eastern since 1965.

KENNETH D. TUNNELL, A.B., M.A. **Assistant Professor of Social Science**

A.B., Carson-Newman College; M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1962.

ANN UHLIR, B.S., M.A., Ed.D. **Professor of Health and Physical Education**

B.S., Ball State University; M.A., Ed.D., Teachers College, Columbia University. At Eastern since 1965.

CHARLES ULRICH, B.A., M.S. **Assistant Professor of Health and Physical Education**

B.A., Goshen College; M.S., Indiana University. At Eastern since 1966.

HOWARD L. UNTERBRINK, B.S., M.S. **Internal Auditor**

B.S., M.S., Eastern Illinois University; additional graduate work at Eastern Illinois University. At Eastern since 1966.

HERBERT S. VESCIO, B.S., M.A. **Director, Student Financial Assistance**

B.S., M.A., Eastern Kentucky State College; additional graduate work at Eastern Kentucky State College and University of Kentucky. At Eastern since 1966.

JOHN L. VICKERS, B.S., M.A. **Executive Assistant**
Associate Professor of Education

B.S., Western Kentucky State College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1960.

J. MURRAY WALKER, A.B., B.D., Th.D. **Assistant Professor of Anthropology and Sociology**

A.B., Mercer University; B.D., Th.D., New Orleans Baptist Theological Seminary; additional graduate work, University of Kentucky, University of Colorado, New York University Studies in Israel, Emory University, Tulane University. At Eastern since 1966.

JAMES T. WALLACE, B.S., M.S., Ph.D. **Assistant Professor of Biology**

B.S., M.S., University of Kentucky; Ph.D., University of Illinois. At Eastern since 1966.

***KYLE D. WALLACE, B.S., M.S.** **Instructor of Mathematics**

B.S., Eastern Kentucky State College; M.S., Vanderbilt University. At Eastern since 1965.

DAVID E. WARD, B.S., M.A. **Assistant Professor of Anthropology**

B.S., University of Illinois; M.A., Southern Illinois University; additional graduate work at Southern Illinois University. At Eastern since 1967.

NED L. WARREN, B.S., M.A., Ed.D. **Chairman, Division of Health, Physical Education, Recreation and Athletics**

B.S., Georgia Southern College; M.A., Ed.D., George Peabody College for Teachers. At Eastern since 1967.

ROSE L. WARREN, B.S., M.A. **Assistant Professor of Elementary Education**
Supervising Teacher, Laboratory School

B.S., Georgia Teachers College; M.A., George Peabody College for Teachers; additional graduate work at George Peabody College for Teachers. At Eastern since 1967.

FRED WATSON, B.S. in Ch.Eng. **Lecturer, School of Law Enforcement**

B.S. in Chemical Engineering, University of Louisville. At Eastern since 1966.

JAMES S. WAY, B.S., M.A. **Assistant Professor of Industrial Technology**

B.S., Central State College; M.A., Eastern Kentucky University; additional graduate work, Eastern Kentucky University. At Eastern since 1967.

PEGGY S. WEBB, A.B., M.S.W. **Assistant Professor of Sociology**

A.B., Radford College; M.S.W., Richmond Professional Institute. At Eastern since 1967.

KLARA S. WELSH, A.B., M.A., M.A. **Assistant Professor of French**

A.B., Munster (Germany), M.A., University of Illinois; M.A., Middlebury College; additional graduate work at Indiana University and Middlebury College. At Eastern since 1967.

RALPH W. WHALIN, B.S., M.Ed. **Chairman, Department of Industrial Education**
Professor of Industrial Education

B.S., Western Kentucky State College; M.Ed., University of Missouri; additional graduate work, University of Kentucky. At Eastern since 1937.

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*On leave 1968-69.

ARVILLE WHEELER, A.B., M.A., Ph.D. Professor of Education
A.B., Centre College; M.A., University of Chicago; Ph.D., Cornell University. At Eastern since 1966.

SAMUEL E. WHITAKER, B.S., M.S. Assistant Professor of Agriculture
B.S., M.S., University of Kentucky; additional work, University of Kentucky. At Eastern since 1966.

DANIEL UPTON WHITE, A.B., M.A. Assistant Professor of English
A.B., University of Louisville; M.A., Cornell University; additional graduate work, University of Kentucky. At Eastern since 1968.

ISABELLE B. WHITE, A.B., M.A. Instructor of English
A.B., M.A., Eastern Kentucky University. At Eastern since 1967.

THELMA W. WHITLOCK, B.S., M.A. Assistant Professor of Science
Supervising Teacher, Laboratory School
B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1957.

A. L. WHITT, JR., B.S., M.S. Professor of Biology
B.S., Western Kentucky State College; M.S., University of Kentucky; additional graduate work, Vanderbilt University, University of Virginia. At Eastern since 1948.

ARTHUR L. WICKERSHAM, B.S., M.A. Associate Professor of Mathematics
Supervising Teacher, Laboratory School
B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky and University of Tennessee. At Eastern since 1946.

PERRY WIGLEY, B.S., M.S. Assistant Professor of Geology
B.S., Birmingham-Southern College; M.S., Virgina Polytechnic Institute; additional graduate work at Virginia Polytechnic Institute. At Eastern since 1967.

EDITH L. WILLIAMS, B.A., M.A. Instructor of English
B.A., North Texas State University; M.A., University of Kentucky; additional graduate work, University of Kentucky, Eastern Kentucky State College. At Eastern since 1964.

JAMES W. WILLIAMS, A.B., M.A. Instructor of Art
A.B., M.A., Morehead State University. At Eastern since 1967.

SUE WISENBAKER, R.N., B.S. Instructor of Nursing
Diploma, St. Luke's Hospital School of Nursing; B.S., Florida State University. At Eastern since 1967.

VANCE WISENBAKER, JR., B.A., M.S. Instructor of Sociology
B.A., M.S., Florida State University. At Eastern since 1966.

GUY H. WOLF II, A.B., M.A. **Instructor of Social Science**

A.B., M.A., University of Alabama. At Eastern since 1967.

***LYLE C. WOLFROM, B.Mus., M.Mus.** **Assistant Professor of Music**

B.Mus., University of Kansas; M.Mus., Indiana University. At Eastern since 1960.

LEONARD F. WOOLUM, A.B., M.A., Ed.D. **Professor of Education**

A.B., Union College; M.A., University of Kentucky; Ed.D., University of Maryland. At Eastern since 1957.

EUGENIE WORONIN, M.D., Cand. Sci. Docent **Associate Professor of Russian and German**

M.D., Medical College at Kharkov, Russia; *Candidat* in Science, Medical College, Kharkov; Senior Scientific Fellow with highest qualifications, Moscow Scientific Committee; *Docent,* awarded by Moscow Scientific Committee. At Eastern since 1964.

J. JACK YARBROUGH, B.B.A., LL.B. **Associate Professor of Business Administration**

B.B.A., Southern Methodist University; LL.B., Southern Methodist University School of Law. At Eastern since 1965.

FRANK YATES, JR., B.A., J.D. **Assistant Professor of Business Law**

B.A., Murray State University; J. D., University of Louisville. At Eastern since 1967.

CEDRIC A. YEO, B.A., Ph.D. **Professor of History**

B.A., Dalhousie University; Ph.D., Yale University; post-doctoral research, University of Chicago (Oriental Institute). At Eastern since 1965.

JOSEPH H. YOUNG, B.S., Ed.M., Ph.D. **Dean, College of Business**
Professor of Business Administration

B.S., Indiana State University; Ed.M., Harvard University; Ph.D., Indiana University. At Eastern since 1963.

JO WILLA ZAUSCH, B.A., M.A. **Instructor of English**

B.A., Evansville College; M.A., Washington University. At Eastern since 1966.

LIBRARY STAFF

ERNEST E. WEYHRAUCH, B.A., M.S. in L.S. **Director of Libraries**

B.A., New York University; M.S. in L.S., Columbia University; additional graduate work at City College and Indiana University.

DICK M. ALLEN, A.B., M.A., B.S. in L.S. **Associate Professor**

A.B., Eastern Kentucky State College; M.A., B.S. in L.S., George Peabody College for Teachers. At Eastern since 1957.

ELIZABETH S. CASTLE, A.A., A.B., B.S. in L.S. **Assistant Professor**

A.A., Bethel Womans College; A.B., Kentucky Wesleyan College; B.S. in L.S., George Peabody College. At Eastern since 1967.

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*On leave 1968-69

FRANK R. CHASE, A.B., B.S. Assistant Professor

A.B., University of Illinois; B.S. in L.S., Columbia University. At Eastern since 1965.

GEORGE W. CRABB, B.A., M.A.T., M.A.L.S. Assistant Professor

B.A., Southwestern at Memphis; M.A.T., Vanderbilt University; M.A.L.S., George Peabody College for Teachers; additional graduate work, University of Colorado. At Eastern since 1964.

NANNIE BELLE DEJARNETTE, A.B. Semi-Professional Staff

A.B., Eastern Kentucky State College; graduate work, University of Kentucky; Montclair State Teachers College. At Eastern since 1967.

MARY S. DICKERSON, A.B., B.S. in L.S. Instructor

A.B., Centre College; B.S. in Library Science, University of Kentucky. At Eastern since 1948.

MARGARET G. GARDNER, A.B., M.S. in L.S. Instructor

A.B., Vassar College; M.S. in L.S., University of Kentucky; additional graduate work at University of Kentucky and University of Cincinnati. At Eastern since 1967.

SARA H. GLEAVES, B.S., M.A., M.L.S. Instructor

B.S., Western Kentucky University; M.A., M.L.S., George Peabody College for Teachers. At Eastern since 1966.

ANGELA HURLEY, B.S. Semi-Professional Staff

B.S., Eastern Kentucky University; graduate work, University of Missouri. At Eastern since 1967.

DELORIS JUNE MARTIN, B.S., M.S. in L.S. Instructor

B.S., Eastern Kentucky University; M.S. in L.S., University of Kentucky. At Eastern since 1964.

LILLIAN M. MAXFIELD, A.B., M.A., B.S.L.S. Instructor

A.B., Albion College; M.A., George Peabody College; B.S.L.S., Texas Woman's University; Graduate Certificate in Religion, Scarritt College. At Eastern since 1965.

NANCY G. MILLER, B.A., M.A. Associate Professor

B.A., M.A., George Peabody College for Teachers. At Eastern since 1930.

FRANK NUNEZ, A.B., M.S. in L.S. Instructor

A.B., Eastern Kentucky University; M.S. in L.S., University of Kentucky. At Eastern since 1962.

GENEVIEVE J. POPE, A.B. Assistant Instructor

A.B., Southwestern-at-Memphis. At Eastern since 1966.

LARRY J. POPE, A.B., M.S. in L.S. Assistant Professor

A.B., M.S. in L.S., University of Kentucky. At Eastern since 1966.

MARY J. THURMAN, A.B. Instructor

A.B., Georgetown College; graduate work, University of Kentucky, Stephen F. Austin State College, Central State College. At Eastern since 1966.

MARIANNE SUE WARD, B.A., M.A. **Museum Curator**
B.A., Michigan State University; M.A., Southern Illinois University. At Eastern since 1967.

GENE A. WHICKER, A.B., M.A., M.S. **Assistant Professor**
A.B., M.S., University of Kentucky; M.A., Teachers College, Columbia University; additional graduate work, University of Wisconsin. At Eastern since 1964.

DOCIA BALDRIDGE WOODS, B.S., M.A. **Semi-Professional Staff**
B.S., George Peabody College; M.A., Morehead State College; additional graduate work at Peabody College and Eastern Kentucky University. At Eastern since 1961.

MILITARY SCIENCE STAFF

COLONEL EVERETT N. SMITH, A.B., M.A. **Professor of Military Science**
A.B., Maryville College; M.A., Eastern Kentucky University; graduate of: Basic Officer's Course, Division Officer's Course, Advanced Officer's Course, The Artillery School, Fort Sill, Oklahoma; The Command and General Staff College, Fort Leavenworth, Kansas; Executive Officer's Course, Fort Meade, Maryland; Senior Officer Nuclear Weapons Employment Course, Fort Leavenworth, Kansas; The Airborne Course, Fort Benning, Georgia; The Indian Defense Service Staff College, Wellington, South India; Unconventional Warfare Course, Special Warfare School, Fort Bragg, North Carolina; Military Assistance Viet Nam, Military Assistance Institute, Arlington Tower, Arlington, Virginia. At Eastern since August 1964.

LIEUTENANT COLONEL ALONZO J. GOLDEN, B.S. (EE) **Associate Professor of Military Science**
B.S., Electrical Engineering, Purdue University; graduate of: Advanced Officer's Course, The Artillery School, Fort Sill, Oklahoma; Special Weapons Employment Course, Fort Leavenworth, Kansas; Air Command and Staff College, Maxwell Air Force Base, Alabama; Air-Ground Operations School; Keesler Air Force Base, Mississippi; Department of Defense Computer Institute, Washington, D.C. At Eastern since August 1966.

MAJOR ALTON B. PARKER, JR., B.S. **Associate Professor of Military Science**
B.S., United States Military Academy; graduate of: Basic Infantry Officer's School Cource and Infantry Career Course, The Infantry School, Fort Benning, Georgia; Airborne, Ranger, Pathfinder and Instructor Training Courses, The Infantry School, Fort Benning, Georgia. At Eastern since January 1965.

MAJOR WILLIAM T. COLLIER, B.S. **Associate Professor of Military Science**
B.S., University of Oklahoma. Graduate of: Basic Infantry Officer's Course, The Infantry School, Fort Benning Georgia; Quartermaster Career Course, The Quartermaster School, Fort Lee, Virginia. At Eastern since June 1966.

MAJOR JAMES H. RINK, B.S. **Associate Professor of Military Science**

B.S., United States Military Academy; graduate of: Infantry Officer's Course and Infantry Officer's Career Course, The Infantry School, Fort Benning, Georgia; Basic Airborne Course, The Infantry School, Fort Benning, Georgia; U. S. Army Special Warfare School, Fort Bragg, North Carolina. At Eastern since October 1966.

CAPTAIN MARVIN C. GOFF, JR., B.S. **Assistant Professor of Military Science**

B.S., University of Kentucky; graduate of: Armor Officer's Basic Course, The Armor School, Fort Knox, Kentucky; Armor Officer's Maintenance Course, The Armor School, Fort Knox, Kentucky; Infantry Officer's Career Course, The Infantry School, Fort Benning, Georgia. At Eastern since June 1965.

MAJOR R. WILLIAM DUNNE, A.B. **Associate Professor of Military Science**

A.B., Spring Hill College, Mobile, Alabama; graduate of: Armored Officer's Basic Course. The Armor School, Fort Knox, Kentucky; Adjutant General Officer's Familiarization Course and Adjutant General Officer's Career Course, Fort Benjamin Harrison, Indiana. At Eastern since January 1967.

CAPTAIN LEWIS B. DIAS, B.S. **Assistant Professor of Military Science**

B.S., Middle Tennessee State College; graduate of: Air Defense Missile Officer's Basic Course, Fort Bliss, Texas; The Artillery Officer's Associate Advanced Course, Fort Sill, Oklahoma; Nuclear Weapons Employment Course, Fort Sill, Oklahoma. At Eastern since August 1966.

MAJOR NATHAN H. BREWSTER, B.S. **Associate Professor of Military Science**

B.S., Eastern Kentucky State College; graduate of: Basic Officers Course, Advanced Officer's Course, The Armor School, Fort Knox, Kentucky. At Eastern since October 1967.

MAJOR HARRY H. WICKSELL, JR., B.S. **Associate Professor of Military Science**

B.S., Eastern Kentucky State College; graduate of: Infantry Officers Basic Course, Airborne Course, Ranger Course, Infantry Officer's Career Course, The Infantry School, Fort Benning, Georgia. At Eastern since October 1967.

MAJOR KENNETH E. WRIGHT, B.S. **Associate Professor of Military Science**

B.S., Western Kentucky State College; graduate of: Infantry Officer's Basic Course, Airborne Course, Infantry Officer's Career Course, The Infantry School, Fort Benning, Georgia. At Eastern since October 1967.

CAPTAIN JAMES F. MEYER, B.A. **Assistant Professor of Military Science**

B.A., Seton Hall University; graduate of: Infantry Officer's Basic Course, The Infantry School, Fort Benning, Georgia; Basic Airborne and Jumpmaster Courses, The Infantry School, Fort Benning, Georgia; U.S. Army Special Warfare School, Fort Bragg, North Carolina. At Eastern since December 1966.

CAPTAIN LOUIS R. APUZZIO, B.A. **Assistant Professor of Military Science**

B.A., Seton Hall University; graduate of: Infantry Officer's Basic Course, Ranger and Basic Airborne Courses, The Infantry School, Fort Benning, Georgia; Officer's Maintenance Course, Fort Knox, Kentucky; Jumpmaster Course, Fort Campbell, Kentucky. At Eastern since August 1966.

CAPTAIN JAMES W. MILLER, B.S. **Assistant Professor of Military Science**

B.S., Kent State University; graduate of: Infantry Officer's Basic Course, The Infantry School, Fort Benning, Georgia; Basic Airborne and Ranger Courses, The Infantry School, Fort Benning, Georgia. At Eastern since October 1966.

CAPTAIN JOHN C. HODGE, B.S. **Assistant Professor of Military Science**

B.S., Rensselaer Polytechnic Institute; graduate of: Ordnance Officer's Basic Course, Aberdeen Proving Ground, Maryland; Guided Missile Officer's Maintenance Course, Redstone Arsenal, Alabama. At Eastern since July 1966.

CAPTAIN WARD M. CHEWNING, JR., B.A. **Assistant Professor of Military Science**

B.A., West Georgia College; graduate of: Infantry Officer's Basic Course and Airborne Course, the Infantry School, Fort Benning, Georgia; MATA Course, U.S. Army Special Warfare School, Fort Bragg, North Carolina; Vietnamese Language Course, Defense Language Institute West Coast, California. At Eastern since October 1967.

CAPTAIN EDWARD F. BELL, JR., B.S. **Assistant Professor of Military Science**

B.S., Boston College; graduate of: Basic Officer's Course, Advanced Officer's Course, The Armor School, Fort Knox, Kentucky; Basic Airborne Course, The Infantry School, Fort Benning, Georgia; MATA Sector Unit Course, U.S. Army Special Warfare School, Fort Bragg, North Carolina; Vietnamese Language Course, The Defense Language Instruction School, Biggs Field, Texas. At Eastern since July 1968.

SERGEANT FIRST CLASS E-7 ERNEST GREGORY **Instructor**

Graduate of: 17th Airborne Noncommissioned Officer's Academy, Germany; Noncommissioned Officer's Academy, Munich, Germany; Jumpmaster School, Fort Bragg, North Carolina. At Eastern since August 1966.

SERGEANT FIRST CLASS E-7 LONNIE MAHAN **Instructor**

Graduate of: Personnel Specialist Administrative Course, Fort Benjamin Harrison, Indianapolis, Indiana. At Eastern since June 1967.

STAFF SERGEANT E-6 WILLIAM L. MULLINS **Instructor**

Graduate of: Advanced Atomic Demolition and Munitions and Systems School, Oberammagall, Germany; Voice Radio Operator School, Fort Lewis, Washington. At Eastern since July 1966.

STAFF SERGEANT E-6 DANNY W. TARTER **Instructor**

Graduate of: Noncommissioned Officer's Leadership School, Fort Eustis, Virginia. At Eastern since August 1966.

STAFF SERGEANT E-6 LaVERNON SMIDDY **Instructor**

Graduate of: Ammunition Helpers School, NCO Academy, Fort Knox, Kentucky; Jungle Operation Course, U.S. Army Jungle Warfare School, Fort Sherman, Canal Zone. At Eastern since June 1967.

VIRGINIA M. EVERSOLE **Secretary to Professor of Military Science**

At Eastern since September 1956.

BETTY J. MEYER (DAC) **Clerk Stenographer**

At Eastern since November 1964.

TITLE III
ELEMENTARY AND SECONDARY EDUCATION ACT OF 1965
KENTUCKY REGION 6

THOMAS P. COLLINS, B.S., M.A., Ed.D. **Director of Title III, ESEA Assistant Professor of Education**

B.S., M.A., Eastern Kentucky University; Ed.D., University of Kentucky. At Eastern since 1966.

LUTHER M. AMBROSE, B.S., M.A., Ph.D. **Professor and Coordinator of Child Study**

B.S., Berea College; M.A., University of Chicago; Ph.D., University of Kentucky. At Eastern since 1967.

IRENE BANDY, B.S., M.A. **Instructor and Guidance Counselor**

B.A., Ohio University; M.A., Eastern Kentucky University. At Eastern since 1967.

FREDERICA A. COLEMAN, A.B., M.A. **Speech Therapist**

A.B., M.A., University of Kentucky. At Eastern since 1968.

JOHN FIORINO, B.S., Ed.M., Ed.D. **Associate Professor of Education and Coordinator of ATEP**

B.S., State University of New York; Ed.M., Rutgers University; Ed.D., University of Buffalo. At Eastern since 1967.

SUE GILMORE, B.S. **Instructor and Speech and Hearing Therapist**

B.S., Bowling Green State University. At Eastern since 1967.

COLLETA GRINDSTAFF, B.A., M.A. **Instructor and Reading Specialist**

B.A., M.A., East Tennessee State University. At Eastern since 1967.

ELIZABETH JEFFRIES, B.S., M.A. **Instructor and Reading Specialist**

B.S., University of Tennessee; M.A., East Tennessee State University. At Eastern since 1967.

FOWLER JEFFRIES, B.S., M.A. **Assistant Professor and Coordinator of Language Arts**

B.S., M.A., East Tennessee University. At Eastern since 1967.

THOMAS MEIER, B.S., M.A. **Instructor and Guidance Counselor**

B.S., M.A., Eastern Kentucky University. At Eastern since 1967.

DONALD RALPH, B.A., M.S. **Assistant Professor Child Study Program**

B.A., M.S., University of Kentucky. At Eastern since 1967.

J. C. SIZEMORE, A.B., M.A. **Assistant Professor Child Study Program**

A.B., M.A., Eastern Kentucky University. At Eastern since 1967.

CLEVE THOMAS, B.S., M.A. **Instructor and Guidance Counselor**

B.A., Union College; M.A., Eastern Kentucky University. At Eastern since 1967.

CLAYTON WISEMAN, B.A., M.Ed. **Assistant Professor and Coordinator, Guidance and Counseling**

B.A., Cedarville College; M.Ed., Miami Universtiy. At Eastern since 1967.

RETIRED FACULTY

W. F. O'DONNELL, A.B., A.M., LL.D., President, 1941-1960.

ANNIE ALVIS, B.S., A.M., Assistant Professor of Elementary Education; Supervising Teacher, Laboratory School, 1932-1962.

MARY C. BALDWIN, A.B., Assistant Professor of English, 1958-1964.

MARY E. BARNHILL, A.B., M.A., LL.B., Associate Professor of English, 1931-1960.

PEARL L. BUCHANAN, B.L., B.A., M.A., Associate Professor of English, 1923-1964.

MARY K. BURRIER, B.S., M.S., Associate Professor of Home Economics, 1925-1963.

D. J. CARTY, B.S., M.A., Associate Professor of Education, 1948-1968.

EMMA YOUNG CASE, A.B., M.A., Associate Professor of Education, Dean of Women, 1925-1962.

MEREDITH J. COX, B.A., M.A., Professor of Chemistry, 1924-1965.

J. T. DORRIS, A.B., A.M., Ph.D., Lit.D., Professor of History and Government, 1926-1953.

RICHARD A. EDWARDS, A.B., A.M., Professor of Education, 1918-1954.

D. THOMAS FERRELL, A.B., A.M., M.A., Ph.D., Professor of Education, 1927-1964.

EDITH G. FORD, B.C.S., A.B., M.A., Associate Professor of Commerce, 1927-1962.

PRESLEY M. GRISE, A.B., M.A., Ph.D., Professor of English, 1930-1965.

THOMAS C. HERNDON, A.A., B.S., M.A., Ph.D., Professor of Chemistry, 1930-1967.

SAUL HOUNCHELL, A.B., M.A., Ph.D., Professor of English, 1946-1962.

RICHARD E. JAGGERS, A.B., M.A., Ph.D., Professor of Education, 1952-1961.

WILLIAM LEE KEENE, B.S., M.A., Professor of English, 1926-1966.

CORA LEE, B.S., A.M., Assistant Professor of English; Supervising Teacher, Laboratory School, 1925-1961.

WILLIAM J. MOORE, A.B., M.A., Ph.D., Dean of the Faculty, Professor of Economics, 1928-1965.

NANCY R. PARK, A.B., Cert. in L.S., Assistant Professor, Library, 1954-1968.

SMITH PARK, B.S., M.S., Ph.D., Professor of Mathematics, 1923-1967.

ALLEN R. RAGAN, A.B., M.A., Ph.D., Professor of Political Science, 1963-1968.

ALMA REGENSTEIN, B.S., M.A., Assistant Professor of Home Economics; Supervising Teacher, Laboratory School, 1937-1962.

MARY F. McKINNEY RICHARDS, B.S., M.A., Associate Professor of Geography and Geology, 1923-1966.

ROLLIN RHOTEN RICHARDS, A.B., M.B.A., Professor of Business, 1929-1966.

RUBY RUSH, A.B., A.M., Associate Professor of Latin; Supervising Teacher, Laboratory School, 1926-1965.

ANNA A. SCHNIEB, A.B., A.M., Ph.D., Professor of Education, 1923-1952.

MAMIE W. SCOTT, A.B., M.A., Associate Professor of Education, 1950-1967.

BLANCHE S. SEEVERS, B.Mus., B.A., M.Mus., Professor of Music, 1938-1968.

VIRGINIA F. STORY, B.S., M.A., Assistant Professor of Elementary Education; Supervising Teacher, Laboratory School, 1927-1962.

BROWN E. TELFORD, B.S., Associate Professor of Music, 1917-1962.

GLADYS P. TYNG, B.S., A.M., Professor of Education, 1920-1961.

BETTY W. VAN CLEVE, A.B., Ph.B., M.A., Certificate in L.S., Assistant Professor of Library Science, 1962-1966.

CHARLES F. VAN CLEVE, A.B., A.M., Ph.D., Professor of English, 1962-1966.

JAMES E. VAN PEURSEM, A.B., B.Sch.M., M.A., Professor of Music, 1929-1964.

SAMUEL WALKER, A.B., A.M., Ph.D., Assistant Professor of Mathematics, 1926-1956.

LUCILE R. WHITEHEAD, B.S., B.S. in L.S., Assistant Librarian, 1931-1961.

ELIZABETH WILSON, B.S., M.A., Assistant Professor of Elementary Education; Supervising Teacher, Laboratory School, 1928-1953.

GERMANIA WINGO, B.S., M.A., Assistant Professor of Elementary Education; Supervising Teacher, Laboratory School, 1920-1958.

RETIRED ADMINISTRATIVE STAFF

KATHLEEN BALES, Night Supervisor, Burnam Hall, 1950-1963.

LOUISE BROADDUS, Recorder, Office of Registrar, 1936-1966.

KATHARINE CHENAULT, A.B., Hostess, Student Union Building, 1940-1959.

LOIS COLLEY, Director of Student Loans, 1929-1967.

NELLIE HILL, Cafeteria Manager, 1943-1962.

MYRTIE B. HOLDER, House Director, 1957-1967.

EARL P. McCONNELL, Bookkeeper, 1923-1958.

HELEN W. PERRY, Administrative Assistant to Dean of Students, 1921-1966.

ELLEN SMATHERS, Night Supervisor, 1957-1964.

AILEEN WICKERSHAM, Secretary, Business Office, 1954-1963.

EUNICE WINGO, Assistant to the Dean of Women, 1925-1959.

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GENERAL INDEX

- Academic Division 57
- Academic
  - Buildings 13
  - Probation 52
  - Regulations 50
  - Requirements 48-54
  - Standing 52
- Academic Programs, Degrees 41
- Accounting, preparatory curriculum in CUC 69
- Accounting, Department of 236
- Administration
  - Officers 303
  - Staff 349
- Admission to:
  - University 40
  - Graduate School 294
  - Student Teaching 45
  - Teacher Education Programs 44
- Agriculture, preparatory curriculum in CUC 69
- Agriculture, Department of 101
- Alumni Association 36
- Anthropology, preparatory curriculum in CUC 70
- Anthropology Department 151
- Application for Degree 54
- Art, preparatory curriculum in CUC 70
- Art Department 157
- Associate Degrees 42
- Athletics 32, 272
- Attendance, class 53
- Auditing a Course 52
- Automobiles, student 31
- Awards 35
- Baccalaureate Degrees 42
  - General Requirements 53
  - Second Baccalaureate Degree 54
- Biology Department 161
- Biology, preparatory curriculum in CUC 71
- Board of Regents 302
- Buildings and facilities 13
- Business Administration, Department of 239
- Business Administration, preparatory curriculum in CUC 73
- Business Education and Office Administration preparatory curriculum in CUC 74
- Business Education and Office Administration, Department of 248
- Cafeterias 27
- Calendar, University 3
- Campus
  - Description 13
  - Map .... (Inside back cover)
- Catalogue Code 50
- Catalogue, Students 50
- Certificates 45, 46
- Chemistry, Department of 169
- Chemistry, preparatory curriculum in CUC 75
- Classification of Students 50
- Clubs and Organizations 32

COLLEGES AND DEPARTMENTS

- CENTRAL UNIVERSITY COLLEGE 58
  - General Studies Course Offerings 60
    - English Composition (GSE) 60
    - Humanities (GSH) 60
    - Physical Education (GSP) 60
    - Health (GSP) 61
    - Biological Science (GSC) 61
    - Physical Science (GSC) 61
    - Social Science (GSS) 62
  - Military Science 62
    - Courses (MIL) 64
  - Academic Programs 68
    - Initial Semester 68
    - Accounting 69
    - Agriculture 69
    - Anthropology 70
    - Art 70
    - Biology 71
    - Business Administration 73
    - Business Education and Office Administration 74
    - Chemistry 75
    - Dietetics 83
    - Drama and Speech 75
    - Earth Science 80
    - Economics 76
    - Elementary Education 77
    - English 77
  - Finance 73
    - Food Service Management 83
    - Foreign Language 78
    - Geography 79
    - Geology 80
    - Health 81
    - History 81
    - Home Economics 83
    - Industrial Education 84
    - Industrial Technology 86
    - Law Enforcement 87
    - Library Science 87
    - Management 73
    - Manual Arts Therapy 88
    - Marketing 88
    - Mathematics 89
    - Medical Technology 90
    - Music 90
    - Office Administration 74
    - Philosophy 91
    - Physical Education 92
    - Physics 93
    - Political Science 94
    - Pre-Forestry 71
    - Pre-Medical Science 153
    - Pre-Veterinary 71
    - Psychology 95
    - Recreation 96
    - School Health 81
    - Sociology 96
    - Speech Pathology and Audiology 75
    - Undecided 97
    - Wildlife 71

- **College of Applied Arts and Technology** 99
- Agriculture 101
  - Home Economics 108
  - Industrial Education 114
  - Industrial Technology 125
  - Kentucky School of Crafts 141
  - Kentucky Peace Officers Standards and Training Council 143
  - Nursing 140
  - School of Law Enforcement 135
  - Traffic Safety Institute 144

- **College of Arts and Sciences** 145
  - Pre-Engineering 148
  - Pre-Forestry 148
  - Medical Technology 151
  - Pre-Law 47
  - Pre-Medical Sciences 150
  - Pre-Optometry 148
  - Pre-Pharmacy 149
  - Pre-Veterinary 150
  - Anthropology and Sociology 151
    - Social Work Major 154
  - Art 157

Biology 161
    Wildlife Management Major 162
  Chemistry 169
  Drama and Speech 173
  English 178
    Journalism Minor 179
  Foreign Languages 185
    French 185
    Greek 187
    German 186
    Latin 187
    Russian 189
    Spanish 190
  Geography 191
  Geology 196
  History 199
  Journalism Minor 179
  Mathematics 207
  Music 211
  Philosophy 220
  Physics 222
  Political Science 225
  Science 230
  Social Work Major 154
  Wildlife Management Major 162
College of Business 231
  Accounting 236
  Business Administration 239
  Business Education and Office Administration 248
  Economics 254
College of Education 259
  Elementary Education 262
  Education 262
  Reading Center 271
  Health, Physical Education, Recreation and Athletics 272
    Health 272
    Physical Education (Men) 274
    Physical Education (Women) 276
    Recreation 281
    School Health 273
  Laboratory School 283
  Library Science 284
  Professional Laboratory Experiences 286
  Psychology 287
Graduate School 293
Continuing Education 297
  Correspondence 298
  Extension 299
Commencement 54
Commencement Honors 54
Concentrations 42
Correspondence 298
Counseling 31
Course Load 52
Course numbering 50
Course Prefixes 49
Cultural Activities 34
Curricula
  Pre-Professional 47
  Requirements 45
  Teacher Education 44
  Preparatory 67
  Dairy Science and Technology 103
Data Processing 240
Degrees
  Associate of Arts 41
  Bachelor of Arts 41
  Bachelor of Science 41
  Bachelor of Music 41
  Bachelor of Music Education 41
  Bachelor of Business Administration 41
  Joint Doctoral Program 261
    In English 178
  Master of Arts in Education 261
    In English 178
    In History 199
    In Geography 191
  In Guidance and Conseling for Non-School Personnel 261
Master of Business Adminstration 231
Master of Music Education 211
Master of Science
  In Biology 161
  In Chemistry 169
  In Psychology 287
Dietetics 83-109
Dormitories
  Men's 17
  Women's 16
Expenses 22
Drafting Technology 128
Drama and Speech, Department of 171
Drama and Speech, preparatory curriculum in CUC 75
Economics, Department of 254
Economics, preparatory curriculum in CUC 76
Education, Department of 262
Educational Opportunity Grants 29
Elementary Education, Department of 262
Elementary Education, preparatory curriculum in CUC 77
Employment, Student 28
English, Department of 178
English, preparatory curriculum in CUC 77
Entrance Requirements 40
Expenses and Living Accommodations 22
Extension Division 299
Faculty 304
Family Housing Facilities 19
Fees and Expenses 22
Finance 73, 241
Financial Assistance 30
Foreign Language, Department of 185
Food Service 27
Food Service Management 83, 109
Food Service Technology 110
Foreign Language, preparatory curriculum in CUC 78
Fraternities, social 33
General Academic Information 39
General Business 240
General Education Requirements 48
General Studies Course Offerings 60
Geography, Department of 191
Geography, preparatory curriculum in CUC 79
Geology, Department of 196
Geology, preparatory curriculum in CUC 80
Grading System 51
Graduate Record Examination 295
Graduate School 294
Graduation Requirements 53
Guidance and Counseling 31
Health 272
Health, preparatory curriculum in CUC 81
Health Services 30
History, Department of 199
History, preparatory curriculum in CUC 81
History of the University 10
Home Economics, Department of 108
Home Economics, preparatory curriculum in CUC 83
Honorary Societies 32
Horticulture 101
Housing
  Accommodations 25
  Expenses 25
Identification Card, Student 26
Industrial Education, Department of 114
Industrial Education, preparatory curriculum in CUC 84

Industrial Technology, Department of 125
Industrial Technology, preparatory curriculum in CUC 86
Infirmary 30
Information for the Student 21
Journalism 179
Kentucky School of Crafts 141
Kentucky Peace Officers Standards and Training Counsel 143
Laboratory Fees 23
Laboratory School 283
Late Registration 52
Law Enforcement, School of 135
Law Enforcement, preparatory curriculum in CUC 87
Library Science, Department of 284
Library Science, preparatory curriculum in CUC 87
Living Accommodations 25
Loan Funds 28
Majors 40
Management 241
Management, preparatory curriculum in CUC 73
Manual Arts Therapy, preparatory curriculum in CUC 88
Marketing 242
Marketing, Preparatory curriculum in CUC 88
Mathematics, Department of 207
Mathematics, preparatory curriculum in CUC 89
Medical Services 30
Medical Technology 151
Medical Technology, preparatory curriculum in CUC 90
Men's Residence Halls 17
Military Science, Department of 62
Music, Department of 211
Music, preparatory curriculum in CUC 90
Non-Residence Fees 23
Numbering of Courses 50
Nursing, Department of 140
Office Administration, preparatory curriculum in CUC 74
Officers of Administration 303
  Of Board of Regents 301
Official Directors 300
Organizations, Student 32
Philosophy, Department of 221
Philosophy, preparatory curriculum in CUC 91
Physical Education 274-272
Physical Education, preparatory curriculum in CUC 92
Physics, Department of 222
Physics, preparatory curriculum in CUC 93
Placement Office 36
Political Science, Department of 225
Political Science, preparatory curriculum in CUC 94
Post Office 23
Pre-Dental (1 & 2 years) 150
Pre-Dental 150
Pre-Engineering 150
Pre-Forestry 150
Pre-Forestry, preparatory curriculum in CUC 71
Pre-Law 47
Pre-Medical Science, preparatory curriculum in CUC 94
Pre-Medical Science 150
Pre-Optometry 148
Pre-Pharmacy 149
Pre-Veterinary, preparatory curriculum in CUC 70
Pre-Veterinary 150
Probation, Academic 52
Professional Laboratory Experience 286
Provisional Elementary Certificate 45
Provisional High School Certificate 46
Psychology, preparatory curriculum in CUC 95
Psychology Department 287
Publications, Student 33
Purpose of the University 11
Quality Points 51
Reading Clinic 271
Recreation, preparatory curriculum in CUC 96
Recreation Program Administration 272-281
Refund Policy 26
Registration Fees 22
Registration, Late 52
Religious Activities 33
Residence Halls 16, 26
Residence Requirements
  For Degree 53
  For Fees Purposes 23
Retired Administration 353
Retired Faculty 353
Schedule Changes 53
Scholarships 27
Scholastic Average 51
School Health 273
Science 230
Secretarial Science Program 251
Social Activities 32
Social Fraternities and Sororities 33
Social Science Area 200
  Non-Teaching 200
  Teaching 200
Social Science, Department of 62
Social Science, preparatory curriculum in CUC 82
Social Work Major 154
Sociology Department 151
Sociology, preparatory curriculum in CUC 96
Sororities, social 33
Speech and Speech Pathology 171
Student Employment 28
Student Load 52
Student Organizations 32
Student Services and Activities 30
Supervised Student Teaching 45-286
Teacher Education Curricula 44
Traffic Safety Institute 144
Two-Year Programs 98
Undecided 95
University, The 9
Veterans Administration 30
Vocational Rehabilitation 30
Wildlife Management Major 162
Wildlife, preparatory curriculum in CUC 72
Withdrawal:
  From the University 53
  From a Course 53
Work-Study Program 29